

JK Chrome | Employment Portal



Rated No.1 Job Application of India

Sarkari Naukri Private Jobs Employment News Study Material Notifications











JK Chrome





www.jkchrome.com | Email : contact@jkchrome.com

Mathematical Operators

Different types of questions covered in this chapter are as follows

- Symbol Substitution
- Balancing the Equation
- Interchange of Signs and Numbers
- Trick Based Mathematical Operations

Note:- While solving a mathematical expression, proceed according to the rule **BODMAS** — *i.e.*, Brackets, Of, Division, Multiplication, Addition, Subtraction.

Example:

 $(36 - 12) \div 4 + 6 + 2 \times 3 = 24 \div 4 + 6 + 2 \times 3$ (Solving Bracket)

- $= 6 + 6 + 2 \times 3$ (Solving Division)
- = 6+6+6 (Solving Multiplication)
- = 18 (Solving Addition)

Type 1: Symbol Substitution

In this type of question, a candidate is provided with the substitutes for various mathematical symbols followed by a question involving calculation of an expression or choosing the correct/ incorrect equation. The candidate is required to put in the real signs in the given equation and then solve the questions as required.

Ex 1: if `×' means `+', `+' means `+', + means `×', then $18 \times 5 \div 5 + 6$ is equal to

- 1. 58 2. 49 3. 43
- 4. 37

Solution: (c)

Change of symbols according to the question,

 $? = 18 \times 5 \div 5 + 6 = 18 - 5 + 5 \times 6$

= 18 - 5 + 30 = (13 + 30) = 43

Type 2: Balancing the Equation

In this type of questions, the signs in one of the alternatives are required to fill up the blank spaces in order to balance the given equation

Ex: Choose the correct option in order to balance the following equation.

```
24 6 12 16 = 0

1. -, + and +

2. \div, + and \div

3. -, - and -

4. \div, + and -

Solution: (d)

From Option (d)

24\div 6+ 12- 16= 0

\frac{24}{6} + 12- 16= 0

4 + 12- 16= 0

16- 16= 0

LHS= RHS

Hence, option (d) is correct.
```

Type 3: Interchange of Signs and Numbers

In this type of questions, the given equation becomes correct and fully balanced when either two signs of the equation or both the numbers and the signs of the equation are interchanged. The candidate is required to find the correct pair of signs and numbers from the given options.

Ex: Choose the correct interchange option in order to make the given equation correct

 $10 - 2 + 9 \times 2 \div 4 = 19$

1. ÷,+,x and -2. -,+,x and + 3. \div , \div , \div and \times 4. \times , \div , \times and \div

Solution: (a)

Let us check the options one by one

From option (a),

As options (a) gives us the correct answer. Hence, there is no need to check other options

Type 4: Trick Based Mathematical Operations

The questions are based on simple mathematical operations that do not follow a universal rule. These questions can be based on several different patterns.

Ex: If $9 \times 5 \times 2 = 529$ and $4 \times 7 \times 2 = 724$, then $3 \times 9 \times 8 = ?$

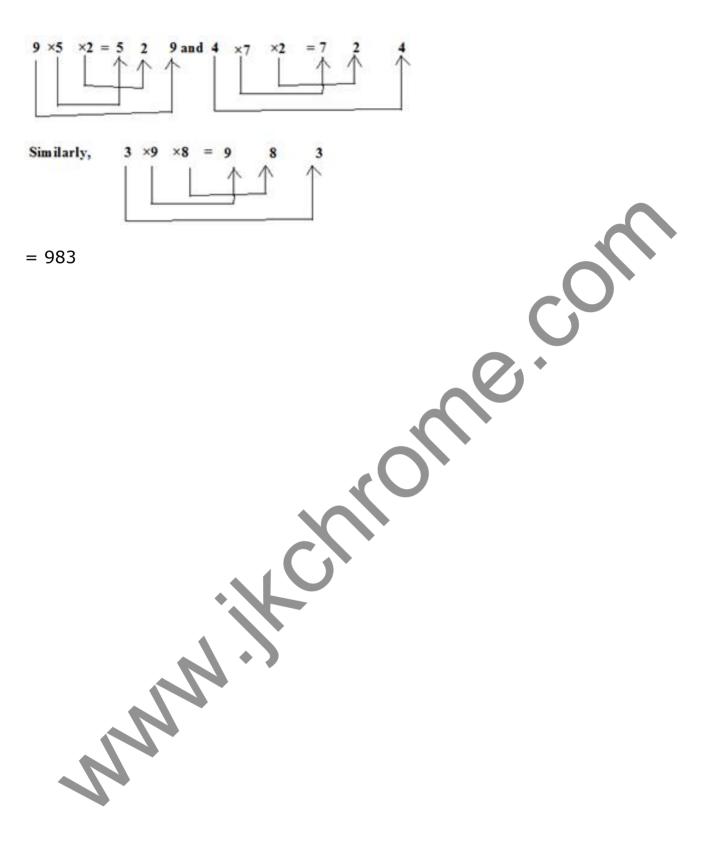
1. 983

2.839

3. 938

4. 893





Mathematical Opeartions

Instructions

For the following questions answer them individually

Question 1

If '+' means '-', '-' means '*', '*' means '/' and '/' means '+', then what is the value of the following expression?

13 - 13 / 3 - 63 * 9 + 2 -5

- **A** 170
- **B** 180
- **C** 190
- **D** 200

Answer: B

Explanation:

Let us replace the symbols with the actual operators.

13 - 13 / 3 - 63 * 9 + 2 -5 = 13 * 13 + 3*63/9 - 2*5

Applying BODMAS rule, we get, 169 + 3*7 - 10 = 180Therefore, option B is the right answer.

Question 2

If '+' means '*', '-' means '+', '*' means '/' and '/' means '-', then what is the value of the following expression?

119*17 + 6 / 16 * 2 + 5

- **A** 1
- **B** 3
- **C** 2

D 4

Answer: C

Explanation:

Let us replace the symbols with the actual operators.

```
119*17 + 6 / 16 * 2 + 5 = 119/17 * 6 - 16/2 *5
```

Applying BODMAS rule, we get

119/17 * 6 - 16/2 *5 = 7*6 - 8*

= 42 - 40

= 2

Therefore, option C is the right answer.

Question 3

 $\sqrt{0.07 + \sqrt{0.0967 - 0.0643}} = ?$

- **A** 0.8
- **B** 0.7
- **C** 0.6
- **D** 0.5
 - Answer: D

Explanation:

 $\sqrt{0.07 + \sqrt{0.0967 - 0.0643}} = \sqrt{0.07 + \sqrt{0.0324}} = \sqrt{0.07 + 0.18} = \sqrt{0.25} = 0.5$ 6 www.jkchrome.com So the answer is option D.

www.jkchrome.com

```
Question 4
Find x^{2018}, if 3x - 4.5 + 2.4 = -2.1
Α
  0
В
   1
  7^{2018}
С
  0.7^{2018}
D
                                                                Answer: A
Explanation:
3x - 4.5 + 2.4 = -2.1
3x - 2.1 = -2.1
3x = 0
x = 0
x^{2018} = 0
So the answer is option A.
Question 5
2.1221 - 3.1331 + 4.1441 = ?
A 9.3993
В
  3.1331
С
  6.2662
D
   none of these
 Answer: B
Explanation:
2.1221-3.1331+4.1441
                          1.0110 + 4.1441 = 3.1331
So the answer is option B.
Question 6
5 100 25 10 	imes 125 	imes x
              = 1, find x ?
Α
   20
B 15
С
  5
D
  10
 Answer: D
Explanation:
{5 \atop 10 	imes 125 	imes x}^{5 \ 100 \ 25}_{x} = 1
```

 ${10\atop 25} \times {25\atop x} = 1$ ${10\atop x} = 1$ 7 www.jkchrome.com x = 10

So the answer is option D.

Question 7

 $\sqrt{0.9 - \sqrt{0.0234 - 0.0153}} = ?$

- **A** 0.9
- **B** 0.99
- **C** 0.999
- **D** 9.0

Answer: A

Explanation:

 $\sqrt{0.9 - \sqrt{0.0234 - 0.0153}} = \sqrt{0.9 - \sqrt{0.0081}} = \sqrt{0.9 - 0.09} = \sqrt{0.81} = 0.9$

 $\frac{2}{3}$

www.jkchrome.com

So the answer is option A.

Question 8

- ${}^{3}_{4} \times {}^{16}_{27} \div {}^{2}_{3} =?$
- **A** 2/3

B 3/2

C 9/4

D 4/9

Answer: A

Explanation: ${}^3_4 \times {}^{16}_{27} \div {}^2_3 = {}^3_4 \times {}^{16}_{27} \times {}^3_2$

So the answer is option

Question 9

0.1123 - 0.0012 + 1.0032 - 0.101 = ?

A 1.0033

- **B** 1.1333
- **C** 1.0133
- **D** 1.1033

Answer: C

Explanation:

0.1123 - 0.0012 + 1.0032 - 0.101 = 0.1111 + 0.9022 = 1.0133

So the answer is option C.

8 www.jkchrome.com

Question 10

Find x, if 4x-0.3+0.22 = 2 ?

- **A** 5.002
- **B** 5.200
- **C** 5.020
- **D** 0.520

Answer: D

Explanation:

4x-0.3+0.22 = 2

4x-0.08 = 2

4x = 2.08

x = 0.52

So the answer is option D.

Question 11

 $15 \div 3 + 2 imes 4 - 2 = x + 1$, find x ?

A 9

- **B** 10
- **c** 11

D 12

Answer: B

Explanation:

 $15\div 3+2\times 4-2=x+1$

5+8-2 = x+1

11 = x + 1

x = 10

So the answer is option

Question 12

 ${6 \atop 8 imes {}^{16} \times {}^{3} \atop 18 imes {}^{4} \times X}$, find 1/X ?

A 4/7

- **B** 8/7
- **C** 7/8
- **D** 7/4

Answer: B

Explanation:

Ø. C $\frac{1}{2} \times X = \frac{4}{7}$ X = 8/7 _{9 www.jkchrome.com} 1/X = 7/8So the answer is option B.

Question 13

576.78+456.87-x = 658.65, Find x ?

A 375

B 376

- **C** 373
- **D** 374
 - Answer: A

Explanation:

576.78 + 456.87 - x = 658.65

1033.65 - x = 658.65

x = 1033.65 - 658.65

x = 375

So the answer is option A.

Question 14

Find $((4096)^{1/3})^{1/2} = ?$

A 2

B 3

C 4

D 5

Answer: C

Explanation:

 $((4096)^{1/3})^{1/2} = 16^{1/2}$

So the answer is option C

Question 15

- 3234 + 5678 11223 + 4456 = ?
- **A** 4585
- **B** 3545
- **C** 5645
- **D** 2145

Answer: D

Explanation: 3234 + 5678 - 11223 + 4456 = 2145.

Ø. C So the answer is option D.

10 www.jkchrome.com

www.jkchrome.com

www.jkchrome.com

Ø.

Question 16 Find $[((16)^{\frac{1}{4}})^{\frac{2}{3}}]^{\frac{6}{2}} = ?$

A 256

- **B** 64
- **C** 16
- **D** 4

Answer: D

Explanation:

```
\left[\left((16)^{\frac{1}{4}}\right)^{\frac{2}{3}}\right]^{\frac{2}{2}} = \left[16\right]^{\frac{1}{4} \times \frac{2}{3} \times \frac{6}{2}} = \left[16\right]^{\frac{1}{2}} = 4
```

So the answer is option D.

Question 17

123.45+45.678-3.1345+13.234 = ?

- **A** 146.3455
- **B** 169.2275
- **C** 156.3455
- **D** 179.2275

Answer: D

Explanation:

123.45 + 45.678 - 3.1345 + 13.234 = 179.2275

So the answer is option D.

Question 18

45.23+23.17-12.46+34.67 =

- **A** 47.86
- **B** 56.64
- **C** 67.57
- **D** 90.61
 - Answer: D

Explanation:

45.23+23.17-12.46+34.67 = 90.61

So the answer is option D.

Question 19

 $95^2 - 5^2 = ?$

- **A** 8100
- 11 www.jkchrome.com **B** 9000

www.jkchrome.com

- **C** 9025
- **D** 9205

Answer: B

Explanation:

 $95^2 - 5^2 = (95 + 5)(95 - 5) = 100 * 90 = 9000$

So the answer is option B.

Question 20

Which of the following is divisible by 3, 7, 9 and 11 ?

- **A** 2645
- **B** 4158
- **C** 3791
- **D** 1188

Answer: B

Explanation:

```
3*7*9*11 = 2079
```

2079*2 = 4158 is divisible by 3, 7, 9, 11

So the answer is option B.

Question 21

3245 - 123 - 456 - 347 + x = 3650?

A 2134

- **B** 1331

С

1567

D 1467

Answer: B

Explanation:

3245 - 123 - 456 - 347 + x = 3650

2319 + x

x = 1331

So the answer is option B.

3650

Question 22

 $600 \div 12 \times \frac{1}{2} \div 5 = ?$

A 4

B 5

c 6

D 8 12 www.jkchrome.com

Answer: B

Explanation:

 $600 \div 12 \times \frac{1}{2} \div 5 = 50 \times 1/10 = 5$

So the answer is option B.

Question 23

123.45 + 6789.01 - 2345.67 = ?

- **A** 4565.79
- **B** 4655.79
- **C** 4566.79
- **D** 4665.79
- Answer: C

Explanation:

123.45 + 6789.01 - 2345.67 = 6912.46 - 2345.67 = 4566.79

So the answer is option C.

Question 24

4591.15 - 528.116 = x + 456.123. Find x ?

- **A** 3660.911
- **B** 3666.911
- **C** 3006.911

D 3606.911

Answer: D

Explanation:

4591.15 - 528.116 = x + 456.123 4063.034 = x + 456.123 4063.034 - 456.123 = x 3606.911 = x So the answer is option D.

Question 25 987.65-456.78-43.321 = ?

- **A** 478.549
- **B** 487.549
- **C** 487.459
- **D** 478.459

Answer: B



www.jkchrome.com

SYMBOLS & NOTATIONS

TYPE-I (i)

Directions : In the following guestion you have to identify the correct response from the given premises stated according to following symbols :

- **1.** If '+' stands for division, '+' stands for multiplication, 'x' stands for subtraction and '-' stands for addition, which one of the following is correct?
 - (1) $18 \div 6 7 + 5 \times 2 = 20$
 - (2) $18 + 6 \div 7 \times 5 2 = 18$
 - (3) $18 \times 6 + 7 \div 5 2 = 16$
 - (4) $18 \div 6 \times 7 + 5 2 = 22$

(SSC Combined Graduate Level Prelim Exam. 27.02.2000 (Ist Sitting)

- 2. If '-' stands for division, '+' for multiplication, '+' for subtraction and 'x' for addition, which one of the following equations is correct?
 - (1) $18 \div 3 \times 2 + 8 6 = 10$
 - (2) $18 3 + 2 \times 8 \div 6 = 14$
 - $(3) 18 3 \div 2 \times 8 + 6 = 17$
 - $(4) 18 \times 3 + 2 \div 8 6 = 15$
- (SSC Combined Graduate Level Prelim Exam. 27.02.2000 (Ist Sitting)
- 3. In an imaginary mathe-matical operation '+' means multiplication, 'x' means subtraction, '+' means addition and '-' means division. All other rules in mathematical operation are the same as in the existing system.

Which one of the following gives the result of

 $175 - 25 \div 5 + 20 \times 3 + 10$? (1) 160 (2) 2370 (3) 77 (4) 240

(SSC Combined Graduate Level Prelim Exam.27.02.2000 (IInd Sitting)

4. If '-' stands for division, '+' for multiplication, '+' for subtraction and 'x' for addition, which one of the following equations is correct?

 $(1) 6 \div 20 \times 12 + 7 - 1 = 70$ $(2) 6 + 20 - 12 \div 7 \times 1 = 62$ $(3) 6 - 20 \div 12 \times 7 + 1 = 57$ $(4) 6 + 20 - 12 \div 7 - 1 = 38$

(SSC Combined Graduate Level Prelim Exam.27.02.2000 (IInd Sitting) 5. If '+' means '-', '-' means 'x', 'x' means '+' and '+' means '+' then $2 \div 6 \times 6 \div 2 = ?$

(1) 1 (2)0(4)5(3) 10

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (Ist Sitting)

- 6. If '+' stands for Multiplication, '×' stands for Division, '-' stands for Addition and '+' stands for Subtraction, what would the following equation stand for?
 - $20 8 \times 4 \div 3 + 2 = ?$ (2) 19
 - (1) 41
 - (4) 18 (3) 16

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (IInd Sitting)

- 7. If 'x' means '-', '-' means '÷', '+', means 'x' and '+' means '+', then what will be the value of the following expression?
 - $16 \times 8 \div 4 3 + 9 = ?$
 - (1) 10(2) 19(4) 9
 - (3) 20
- SSC Combined Graduate Level Prelim Exam. 24.02.2002 (Middle Zone) 8. If '+' means 'minus', '-' means 'multiplication', '+' means 'plus',
 - and 'x' means 'division',
 - $15 3 + 10 \times 5 \div 5 = ?$
 - (1) 52 (2) 48 (3) 22

(4) 5 (SSC CPO Sub-Inspector

- Exam. 07.09.2003)
- **9.** If '-' stands for division, '+' stands for multiplication, '+' stands for subtraction and 'x' for addition, then which of the following equation is correct?
 - (1) $20 + 8 7 \div 6 \times 4 = 25$
 - (2) $20 5 \div 4 + 6 \times 5 = 15$
 - $(3) 20 \times 5 6 \div 7 + 4 = 28$
 - $(4) 20 \div 4 8 \times 10 + 6 = 36$
- (SSC Combined Graduate Level Prelim Exam. 08.02.2004 (IInd Sitting)
- **10.** If \times stands for + and \div for -, fiind the value of the following equation.
 - 39 × 23 ÷ 21 × 5
 - (1) 46 (2)36
 - (4) 89 (3) 62
 - (SSC CPO Sub-Inspector Exam. 05.09.2004)

11. If '+' stands for division; '+' stands for multiplication; 'x' stands of subtraction; '-' stands for addition which one of the following is correct ? (1) $18 \div 6 - 7 + 5 \times 2 = 20$ (2) $18 + 6 \div 7 \times 5 - 2 = 18$ (3) $18 \times 6 + 7 \div 5 - 2 = 16$ (4) $18 \div 6 \times 7 + 5 - 2 = 22$ (SSC CPO Sub-Inspector Exam. 03.09.2006) **12.** If + stands for 'division', × stands for 'addition', - stands for 'multiplication' and + stands for 'subtraction', then which of the following equations is correct? (1) $36 \times 6 + 7 \div 2 - 6 = 20$ (2) $36 + 6 - 3 \times 5 \div 3 = 24$ (3) $36 \div 6 + 3 \times 5 - 3 = 45$ $(4) \ 36 - 6 + 3 \times 5 \div 3 = 74$ (SSC CPO Sub-Inspector Exam. 03.09.2006) 13. If + means 'minus' -- means 'multiplied by', ÷ means 'plus' and × means 'divied by', then $10 \times 5 \div 3 - 2 + 3 = ?$ (1)5(2) 21 (3) $\frac{53}{3}$ (4) 18(SSC Combined Graduate Level Prelim Exam. 04.02.2007 (Ist Sitting) 14. In the following question you have to identify the correct response from the given premises stated according to following symbols. If + means \div_i – means \times_i \div means + and × means -, then

- $63 \times 24 + 8 \div 4 + 2 3 = ?$
- (1) 54 (2) 66
- (3) 186 (4) 48
- (SSC Combined Graduate Level Prelim Exam. 04.02.2007 (IInd Sitting)
- **15.** The following equation becomes mathematically correct when you interchange either the sign or the numbers as indicated in the guestion. Find the correct alternative. Given equation :
 - $(16 4) \times 6 \div 2 + 8 = 30$ (1) 4 and 2 (2) ÷ and -(4) - and + (3) 16 and 6 (SSC CPO Sub-Inspector

Exam. 16.12.2007)

16. If '-' stands for division '+' stands

for subtraction, '+' stands for

multiplication, 'x' stands for

addition, then which one of the following equations is correct? (1) $70 - 2 + 4 \div 5 \times 6 = 44$ (2) $70 - 2 + 4 \div 5 \times 6 = 21$ (3) $70 - 2 + 4 \div 5 \times 6 = 341$ (4) $70 - 2 + 4 \div 5 \times 6 = 36$ (SSC Combined Graduate Level Prelim Exam. 19.06.2011 (Ist Sitting) 17. If - stands for division, + for multiplication, + for subtraction and x for addition, then which one of the following equations is correct ? (1) $19 + 5 - 4 \times 2 \div 4 = 11$ (2) $19 \times 5 - 4 \div 2 + 4 = 16$ (3) $19 \div 5 + 4 - 2 \times 4 = 13$ (4) $19 \div 5 + 4 + 2 \div 4 = 20$ (SSC Combined Graduate Level Prelim Exam. 19.06.2011 (Ist Sitting) 18. If '-' stands for '+' '+'stands for '×', '÷' for '-' and '×' for '+', which one of the following equations in correct? (1) $30 - 6 + 5 \times 4 \div 2 = 27$ (2) $30 + 6 - 5 \div 4 \times 2 = 30$ (3) $30 \times 6 \div 5 - 4 + 2 = 32$ (4) $30 \div 6 \times 5 + 4 - 2 = 40$ (SSC Combined Graduate Level Tier-1 Exam. 26.06.2011 (Ist Sitting) 19. If 'x' means 'addition' ' means 'division', '+' means 'subtraction' and '+' means 'multiplication', then which of the following equations is correct? (1) $16 + 5 - 10 \times 4 \div 3 = 9$ (2) $16 - 5 \times 10 \div 4 + 3 = 12$ (3) $16 + 5 \div 10 \times 4 - 3 = 9$ (4) $16 \times 5 \div 10 \div 4 - 3 = 19$ (SSC Combined Graduate Level Tier-1 Exam. 26.06.2011 (IInd Sitting) 20. If '-' stands for division, '+' for multiplication, '+' for subtraction and 'x' for addition, which one of the following equations is correct? (1) $24 \div 8 - 4 + 2 \times 3 = 16$ (2) $24 - 8 + 4 \times 2 \div 3 = 12$ $(3) 24 \times 8 - 4 \div 2 + 3 = 17$ $(4) 24 + 8 - 4 \times 2 \div 3 = 47$ (SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (East Zone)

-| SYMBOLS & NOTATIONS |-

21. If ÷ means plus, × means subtraction, then $(15 \times 9) \div (12 \times 4) \times (4 \div 4)$ is equal to : (1) 96 (2) 6 (3) $\frac{3}{128}$ (4) $\frac{143}{4}$ (SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Raipur, Madhya Pradesh) **22.** If + means -, - means \times , \div means +, × means ÷, find the value of $15 \times 3 \div 4 - 6 + 7$? (1) 22 (2) 25 (3) 9 (4) 175/3(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting (Middle Zone) 23. If × stands for -, ÷ stands for +, + stands for x, find the value of following equation: $(16 \times 5) \div 5 + 3 =$ (1) 62 (2) 10 (3) 2 (4) 26 (SSC Combined Matric Level (PRE) Exam. 21.05.2000, 30.07.2006 (Ist Sitting (Middle Zone) 24. If '=' stands for addition, '-' stands for multiplication, 'x' stands for subtraction and '+' stands for division, which of the responses does not hold good? $(1) 10 \times 4 = 06$ (2) 10 - 4 = 40(3) 10 + 5 = 50 (4) 10 - 5 = 15(SSC Combined Matric Level (PRE) Exam. 13.05.2001 (Ist Sitting) 25. If 'x' stands for '+', '+' for '-', '-' for 'x' and '+' for '÷', find the value of the following equation : $54 \div 16 - 3 \times 6 + 2 = ?$ (1)9(2) 12 (3)8 (4) 15 (SSC Combined Matric Level (PRE) Exam. 13.05.2001 (Ist Sitting) 26. If '+' stands for 'subtraction' and '+' stands for 'addition' and '-' stands for 'multiplication' and 'x' stands for division, then which of the following equations is correct? (1) $56 + 12 \times 34 - 12 = 102$ (2) $8 \div 44 - 5 + 25 = 203$ (3) $112 \times 44 - 12 + 10 = 46$ (4) $9 \div 64 - 2 \times 6 = 54$ (SSC Combined Matric Level (PRE) Exam. 13.05.2001 (IInd Sitting)

27. If '-' stands for division, '+' stands for multiplication, '+' stands for subtraction and 'x' stands for addition, then which one of the equation is correct? (1) $30 + 5 - 12 \div 8 \times 12 = 70$ (2) $30 - 5 + 12 \div 8 \times 12 = 76$ (3) $30 \times 5 - 12 + 8 \div 12 = 60$ (4) $30 \div 5 \times 12 + 8 - 12 = 24$ (SSC Combined Matric Level (PRE) Exam, 13.05.2001 (IInd Sitting) 28. If '+' stands for multiplication, 'x' stands for division, '-' stands for addition and '+' stands for subtraction, what is the answer for the following equation? $20 - 5 \div 18 \times (3 + 2) = ?$ (1) 20 (2) 18 (3) 108 (4) 22 (SSC Combined Matric Level (PRE) Exam. 13.05.2001 (IInd Sitting) 29. If 'x' stands for minus, '+' stands for multiplication, '-' stands for plus, then which one of the following is correct? $6 + (3 \times 1) + 5 = ?$ (1) 58 (2) 64(3) 60 (4) 12(SSC Combined Matric Level (PRE) Exam. 27.05.2001 (IInd Sitting (East Zone) **30.** If '+' means '+', '+' means '-', '-' means 'x', 'x' means '+', then $12 + 6 \div 3 - 2 \times 8 = ?$ (1) - 2 (2) 4 (3) 2 (4) 8 (SSC Combined Matric Level (PRE) Exam. 27.05.2001 (IInd Sitting (East Zone) **31.** If '+' stands for ' \times ', '-' for ' \div ' ' \times ' for '-' and '+' for '+', then find the value of the following equation $26 + 74 - 4 \times 5 \div 2 = ?$ (1) 220 (2)376(3) 478 (4) 488 (SSC Combined Matric Level (PRE) Exam. 27.05.2001 (IInd Sitting (East Zone) **32.** If '+' stands for subtraction, '+' stands for addition, '-' stands for multiplication and 'x' stands for division, then which one of the following equations is correct? (1) $46 - 10 + 10 \times 5 = 92$ $(2) 265 + 11 - 2 \times 14 = 22$ $(3) \ 66 \times 3 - 11 + 12 = 230$ $(4) 2 - 14 \times 4 \div 11 = 16$ (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati) - SYMBOLS & NOTATIONS

| | SYMBOLS & NOTATIONS | | | | | |
|-----|--|---|--------------------|--|--|--|
| 52. | (1) - and \div (2) + and \times (3) + and \div (4) + and - (SSC Graduate Level Tier-I Exam. 21.04.2013, 1st Sitting) Put the correct mathematical signs in the following equation from the given alternatives. 33 $?$ 11 $?$ 3 $?$ 6 $?$ = 115 (1) -, \times , + (2) +, -, \times | 58. If '+' means '-'; '-' means 'x'; 'x' means ' \div ' and ' \div ' means '+', then $25 \times 5 \div 30 + 8 - 2 = ?$ (1) 54 (2) 15 (3) 18 (4) 19 (SSC GL Tier-I Re-Exam. (2013) 20.07.2014, IInd Sitting) 59. If '-' stands for addition, '+' stands for subtraction ' \div ' stands | oli- on, ct? | | | |
| 53. | (3) ×, ÷, - (4) ÷, ×, × (SSC Graduate Level Tier-I Exam. 19.05.2013, Ist Sitting) If '×' means '+', ÷ means '-', + means '÷' and '-' means '×' then what should be the value of the given equation? | stands for subtraction, ' \div ' stands for multiplication and ' \times ' stands for division, then which one of the following equation is correct? (1) $50 \times 5 \div 2 - 30 + 25 = 25$ (2) $50 - 30 + 5 \div 2 \times 30 = 25$ (3) $40 + 35 \times 2 - 50 \div 30 = 95$ (4) $30 \times 2 - 25 + 50 \div 5 = 100$ (1) C (2) d (3) b (3) b (4) a (SSC CGL Tier-I Exam, 09.08.20 (1) t Sitting) TF No. 144308 65. If $+ = \times, - = \div, \times = +, \div = -, thewhich is the correct equation ofof the following?(1) 18 - 6 \times 7 \div 2 + 8 = 63$ | 38) en | | | |
| 54. | $\begin{array}{rrrr} 14 \times 4 \div 70 + 10 - 2 = ? \\ (1) 33 & (2) 15 \\ (3) 30 & (4) 4 \\ & (SSC CAPFs SI \& CISF ASI \\ & Exam. 23.06.2013) \\ If + means \div, - means \times, \times means \\ + and \div means -, then which of \\ the alternatives is correct ? \\ (1) 5 \times 8 - 5 + 5 \div 1 = 12 \\ (2) 55 - 2 + 10 \div 1 \times 5 = 16 \\ (3) 38 \div 10 - 5 + 7 \times 8 = 25 \end{array}$ | (4) $30 \times 2 - 25 + 50 \div 5 = 100$ (SSC GL Tier-I Exam. 19.10.2014 (Ist Sitting) 60. If + stands for division; × stands for addition; - stands for multi- plication; \div stands for subtrac- tion, which of the following is correct? (1) $15 \div 5 \times 2 - 6 \div 3 = 28$ (2) $15 \times 5 + 2 - 6 \div 3 = 56.5$ (3) $15 + 5 - 2 \div 6 \times 3 = 3$ (1) $10 = 0 \times 7 \div 2 \div 0 = 03$ (2) $18 \div 6 + 4 - 2 \div 3 = 22$ (3) $18 + 6 - 4 \times 2 \div 3 = 22$ (4) $18 \times 6 - 4 + 7 \times 8 = 47$ (SSC CGL Tier-I Exam, 09.08.20 (Ist Sitting) TF No. 144308 66. If '+' means 'x', '-' means ' \div ', means '-' and ' \div ' means '+', the what will be the value of $16 \div 6$ $- 8 \times 4 + 2?$ (1) 18 (2) 24 | 38) '×' en | | | |
| 55. | (4) 10 - 12 + 2 ÷ 30 × 1 = 10 (SSC CGL Tier-I Re-Exam-2013, 27.04.2014) If '-' stands for '+', '+' stands for '×', '×' stands for '-' then which one of the following is not correct ? (1) 22 + 7 - 3 × 9 = 148 (2) 33 × 5 - 10 + 20 = 228 | (4) $15 - 5 + 2 \times 6 \div 3 = 41$ (SSC GL Tier-I Exam. 19.10.2014) 61. If '-' stands for 'division', '+' stands for 'multiplication', '+' stands for 'subtraction', '×' stands for 'addition', then which one of the following equations is correct? (1) $36 \times 4 - 12 + 5 \div 3 = 420$ (3) 16 (4) 12 (SSC CGL Tier-I Exam, 16.08.20 (Ist Sitting) TF No. 319627 67. If + stands for *; - stands for × stands for @ and ÷ stands for %, then which of the following statements is correct? (1) 256% 16 @ 5 # 28 = 52 | 79) #; for | | | |
| 56. | (3) 7 + 28 - 3 × 52 = 127 (4) 44 - 9 + 6 × 11 = 87 (SSC CAPFS SI, CISE ASI & Delhi Police SI Exam. 22,06,2014) If '+' stands for 'division'; '×' stands for 'addition', '-' stands for 'multiplication'; '÷' stands for 'sub- traction', which of the following equations is correct? | (2) $52 \div 4 + 5 \times 8 - 2 = 36$ (3) $36 - 12 \times 6 \div 3 + 4 = 60$ (4) $43 \times 7 \div 5 + 4 - 8 = 25$ (SSC GL Tier-I Exam. 26.10.2014) 62. If a represents \div , b represents +, c represents $-$ and d represents + and for $-$ stands for $-$ stands for $-$ stands for $-$ | | | | |
| 57. | (1) $5 - 3 + 2 \times 4 \div 8 = 2$ (2) $5 \times 3 + 2 - 4 \times 8 = 19$ (3) $5 \div 3 \times 2 - 4 + 8 = 8$ (4) $5 + 3 \times 2 \div 4 - 8 = 4$ (SSC CAPFS SI, CISF ASI & Delhi Police SI Exam. 22.06.2014) If '+' means ' \div '; '-' means ' \pm '; ' \times ' means '-' and ' \div ' means ' \star ', then, $8 \div 4 - 6 + 3 \times 4 = ?$ (1) 4 (2) 14 (3) 28 (4) 30 (SSC GL Tier-I Re-Exam. (2013) 20.07.2014, Ist Sitting) | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | iD) ng) an | | | |

| (1) +, ×, +, \div (2) ×, +, -, \div (3) -, ×, +, \div (4) +, ×, -, \div | 75. If P denotes '+', Q denotes 'x', R denotes '+' and S denotes '-', then | 82. Which one of the following interchanges of signs would |
|--|---|---|
| (SSC (10+2) LDC/DEO/PA/SA | 16Q12P6R5S4 = ? | make the given equation correct? |
| Exam. 01.11.2015 TF No. 1098066) | (1) 31 (2) 32 | $5 + 3 \times 8 - 12 \div 4 = 3$ |
| 70. If <i>a</i> means +, <i>b</i> means ×, <i>c</i> means \div , | (3) 33 (4) 30 | (1) – and ÷ (2) + and × |
| | (SSC CHSL (10+2) LDC, DEO | (3) + and ÷ (4) + and - |
| d means –, then 20 a 10 b 45 c 5 d 12 = ? | & PA/SA Exam, 15.11.2015 (IInd Sitting) TF No. 7203752) | (SSC (10+2) Stenographer Grade 'C' & 'D' Exam. 31.07.2016) |
| (1) 88 (2) 74 | 76. If \times stands for \div , \div stands for $+$, | 83. If '+' stands for division; '×' stands |
| (3) 98 (4) 68 | + stands for -, and - stands for ×, then what is the value of (30) | for addition; '-' stands for multiplication; '+' stands for |
| (SSC (10+2) LDC/DEO/PA/SA | $(20) + 20) - 5(7 \div 3) \times 25 = ?$ | subtraction, then which of the |
| Exam. 01.11.2015 TF No. 1098066) | (1) 100 (2) 10 | following equations is correct? |
| 71. If + stands for division; × stands | (3) 20 (4) 25 | (1) $33 \times 4 - 5 + 6 \div 2 = 26$ |
| for addition; – stands for multi- | (SSC CHSL (10+2) LDC, DEO | (2) $33 \div 4 \times 5 + 6 - 2 = 30$ |
| plication, + stands for subtrac- | & PA/SA Exam, 06.12.2015 | (3) $33 - 4 + 5 \div 6 \times 2 = 24$ (4) $33 - 4 \div 5 \times 6 + 2 = 130$ |
| tion, which of the following is | (Ist Sitting) TF No. 1375232) 77. If + means ÷, ÷ means –, – means | (4) $33 - 4 \div 5 \times 6 + 2 = 130$ (SSC (10+2) Stenographer Grade 'C' |
| correct? | $x_i \times \text{means} + i\text{ theans} - i\text{ theans} + i\text{ theans}$ | & 'D' Exam. 31.07.2016) |
| (1) $25 \times 3 - 7 \div 8 + 12 = 18$ | $8 \times 6 - 4 \div 6 + 3 = ?$ | 84. If 'x' means addition, '-' means |
| (2) $25 + 3 \times 7 - 8 \div 12 = 10.89$ | (1) -112 (2) +118 | division, '÷' means subtraction |
| (3) $25 - 3 \div 7 \times 8 + 12 = 132$ | (3) -33 (4) +92 | and '+' means multiplication, then |
| (4) $25 \div 3 \times 7 - 8 + 12 = 19.3$ | (SSC CHSL (10+2) LDC, DEO | which of the equations is correct? (1) $16 \times 5 \div 10 + 4 - 3 = 19$ |
| (SSC CHSL (10+2) LDC, DEO & PA/SA | & PA/SA Exam, 06.12.2015 | (1) $10 \times 5 \div 10 + 4 - 3 = 19$ (2) $16 + 5 \div 10 \times 4 - 3 = 9$ |
| Exam, 01.11.2015, IInd Sitting) | (Ist Sitting) TF No. 1375232) | (2) $16 + 5 = 10 \times 4 = 3 = 9$ (3) $16 + 5 = 10 \times 4 = 3 = 9$ |
| 72. Insert the arithmetical operations | 78. If + means ÷, ÷ means ×, and × means +, then following will be: | (d) $16 - 5 \times 10 \div 4 + 3 = 12$ |
| in the following numerical figure- | means +, men bhowing win be. | (SSC CGL Tier-I (CBE) Exam.10.09.2016) |
| $4_3_4 = 48$ | 64 + 8 × 32 ± 4 | 85. If '+' is '×', '-' is '+', '×' is '÷' and '÷' |
| (1) + + (2) + - | (1) 128 (2) 160 | is '-', then answer the following |
| $(3) \times + (4) \times \times$ | (3) 136 (4) 144 | questions based on this informa- |
| (SSC CHSL (10+2) LDC, DEO & PA/SA | (SSC CHSL (10+2) LDC, DEO | tion. |
| Exam, 01.11.2015, IInd Sitting) | & PA/SA Exam, 06.12.2015 | 9 – 4 + 2 ÷ 16 × 2 |
| If the given interchanges are made in signs and numbers, | (IInd Sitting) TF No. 3441135) | (1) 71 (2) 62 |
| which one of the following equa- | 79. If '-' denotes '+', '+' denotes '×', '+' denotes '-', '×' denotes '+' then, | (3) 9 (4) 24 |
| tion is true? | $27 \times 3 \div 6 + 9 - 8 = ?$ | (SSC CPO SI, ASI Online |
| (Signs : + and +, Numbers : 6 | (1) 15 (2) 14.5 | Exam.05.06.2016) (IInd Sitting) |
| and 5) | | 86. Identify the symbols to be inserted to make the expression cor- |
| (1) 18 + 6 ÷ 5 = 9.6 | (3) 35 (4) 3.5 (SSC (10+2) Stenographer Grade | rect. |
| (2) $26 \div 5 + 6 = 6.4$ | 'C' & 'D' Exam. 31.01.2016 | $(1) \times + \times \qquad (2) = \times +$ |
| (3) 5 ÷ 6 + 80 = 5.8 | TF No. 3513283) | $(3) \times \div = (4) + = \times$ |
| (4) $90 + 5 \div 6 = 8.6$ | 80. What will be the correct mathe- | (SSC CPO SI, ASI Online |
| (SSC CHSL (10+2) LDC, DEO | matical signs that can be insert- ed in the following? | Exam.05.06.2016) (IInd Sitting) |
| & PA/SA Exam, 15.11.2015 | $4_{6_24_8} = 16$ | 87. Study the following statements and answer the questions accord- |
| (Ist Sitting) TF No. 6636838) | | ingly. |
| 74. If '-' stands for addition, '+' for | $(1) - x + \div \qquad (2) \div + x - $ | '+' stands for division |
| multiplication, '÷' for subtraction | (3) $+ \div - \times$ (4) $\times \div - +$ (SSC (10+2) Stenographer Grade | + 'stands for multiplication |
| and 'x' for division, which one of | 'C' & 'D' Exam. 31.01.2016 | |
| the following equations is correct ? | TF No. 3513283) | '×' stands for addition |
| (1) $5 + 2 - 12 \div 6 \times 2 = 13$ | 81. In a certain code 0, 1, 2 9 | Which one of the following is cor- rect? |
| (2) $5 + 2 - 12 \times 6 \div 2 = 10$ | is coded as a,b,c, j then find baf ÷ bf × d | (1) $30 \times 40 + 8 - 70 \div 40 = 180$ |
| (3) $5 \div 2 + 12 \times 6 - 2 = 4$ | (1) cb (2) d | (1) $30 \times 40 + 8 - 70 - 40 = 180$ (2) $30 + 40 \div 8 \times 70 - 40 = 340$ |
| $(4) 5 - 2 + 12 \times 6 \div 2 = 27$ | (1) CD (2) U (3) df (4) be | $\begin{array}{c} (2) & 30 + 40 + 8 + 70 + 40 = 340 \\ (3) & 30 - 40 \times 8 \div 70 + 40 = 180 \end{array}$ |
| (SSC CHSL (10+2) LDC, DEO | (SSC CHSL (10+2) LDC, DEO | $(4) \ 30 + 40 + 8 \times 70 - 40 = 340$ |
| & PA/SA Exam, 15.11.2015 | & PA/SA Exam, 06.12.2015 | (SSC CPO SI, ASI Online |
| (IInd Sitting) TF No. 7203752) | (Ist Sitting) TF No. 1375232) | Exam.05.06.2016) (IInd Sitting) |

| 88. If 'x' means 'addition', '-' means 'division', '/' means 'subtraction' and '+' means 'multiplication', then which of the equation is correct? (1) $25 + 10 - 5/10 \times 3 = 43$ (2) $25 - 10 \times 5 + 10/3 = 72$ (3) $25 \times 10/5 + 10 - 3 = 12$ (4) $25/10 + 5 \times 10/3 = 18$ (SSC CHSL (10+2) Tier-I (CBE) Exam. 08.09.2016) (Ist Sitting) 89. If '+' stands for multiplication, '-' stands for addition, 'x' stands for division, then what is the value of $128 + 9 - 16 \times 4 = ?$ (1) 73 (2) 256 (3) 1156 (4) 1352 | means '×' and '÷' means '+', then what will be the value of the fol- lowing expression? $16 \times 8 \div 4 - 3 + 9$ (1) 10 (2) 19 (3) 20 (4) 9 (SSC CGL Tier-I (CBE) Exam. 27.08.2016) (IInd Sitting) 95. If '-' stands for division, '+' for multiplication, '+' for subtraction | 1. In a certain code language, '@' represents '+', ' \oplus ' represents '-', 'a' represents '+' and ' θ ' represents 'x'. Find out the answer to the following question: 8900a100 \oplus 504 \oplus 121a11 = ? (1) 58 (2) 62 (3) 158 (4) 205 (SSC CGL Tier-f (CBE) Exam. 28.08.2016) (Ist Sitting) 2. If (-) stands for division, (+) stands for multiplication, (÷) stands for addition, which one of the following equations is correct? (1) 100 + 5 - 10 × 250 ÷ 200 = 100 | | | |
|--|--|--|--|--|--|
| (SSC CGL Tier-I (CBE) Exam. 09.09.2016) (Ist Sitting) | (4) 18 × 3 + 2 ÷ 8 - 6 = 15 (SSC CGL Tier-I (CBE) Exam. 30.08.2016) (Ist Sitting) 96. If '+' means 'x', '-' means '+', 'x' | (2) 200 + 10 – 20 × 200 ÷ 100 = 150 | | | |
| 90. If '+' stands for division, $\stackrel{\wedge}{+}$ ' stands for multiplication, $\stackrel{\wedge}{+}$ ' stands for subtraction and '-' stands for ad- dition, which one of the following expressions is correct? (1) 18 × 6 + 7 ÷ 5 - 2 = 16 (2) 18 ÷ 6 × 7 + 5 - 2 = 22 (3) 18 ÷ 6 - 7 + 5 × 2 = 20 (4) 18 + 6 ÷ 7 × 5 - 2 = 18 (SSC CAPFs (CPO) SI & ASI, Delhi Police | means '-' and ' \div ' means ' \pm ', then find the value of the following equation. $6 + 64 - 8 \div 45 \times 8$ (1) 85 (2) 76 (2) 87 (4) 75 | (3) $50 \times 5 \div 10 + 100 - 75 = 50$ (4) $300 + 5 - 20 \times 200 \div 100 = 200$ (SSC CGL Tier-I (CBE) Exam. 03.09.2016) (IIIrd Sitting) 3. If '-' means 'x', 'x' means '+', '+' means '\v' and '\v' means '-', then what will be the value of 40×12 $+ 3 - 6 \div 60 = ?$ (1) 4 (2) 7 (2) 4 (2) 7 | | | |
| Exam. 20.03.2016) (IInd Sitting) 91. If '+' stands for multiplication, '-' stands for division, '×' stands for addition, '+' stands for subtrac- tion, then which one of the fol- lowing equations is correct ? (1) $12 \times 5 + 4 - 5 \div 4 = 20$ (2) $12 \div 5 + 4 - 5 \times 4 = 18$ (3) $12 + 5 - 4 \times 5 \div 4 = 16$ | 98. If + means \div , \div means $-$, $-$ means \times and \times means $+$, what will be the value of the following expression: $8 + 4 \div 3 \times 5 - 9 = ?$ (1) 44 (2) 53 | (3) 16 (4) 44 (SSC CGL Tier-I (CBE) Exam. 04.09.2016) (IIIrd Sitting) 4. If $25 + 5 \div 2 = 40$, and $35 + 5 \div 2 = 60$, then $45 + 5 \div 2 = ?$ (1) 90 (2) 70 (3) 60 (4) 80 (SSC CGL Tier-I (CBE) Exam. 04.09.2016) (IIIrd Sitting) 5. If '+' means ' \div ', ' \div ' means ' $-$ ', ' $-$ ' | | | |
| (4) 12 ÷ 5 - 4 × 5 + 4 = 22 (SSC CAPFs (CPO) SI & ASI, Delhi Police Exam. 20.03.2016) (IInd Sitting) 92. If ÷ means +, + means ×, × means - and - means ÷, then what is | (3) 62 (4) 64 10 (SSC CGL Tier-I (CBE) Exam. 06.09.2016) (Ist Sitting) 99. If × means –, + means ×, ÷ means + and – means ÷, then what is | $\begin{array}{rcl} \text{means } \div, & \pm & \text{means } -, & -\\ \text{means } '\times' & \text{and } '\times' & \text{means } '+', & \text{then} \\ 48 + 16 \times 4 - 2 \div 8 = ? \\ (1) & 3 & (2) & 6\\ (3) & 112 & (4) & -28 \end{array}$ | | | |
| the value of : [(1440 - 36×16) + 15] + $5 \div$ (144 - 12) + $25 =$? (1) 1500 (2) 2100 (3) 1200 (4) 4800 (SSC CAPFs (CPO) SI & ASI, Delhi Police Exam. 05.06.2016) (Ist Sitting) 93. If + means ×, - means +, × means \div , \div means -, then what is the value of $50 + 10 - 50 \times 10 \div 125$? (1) 380 (2) 56 (3) 180 (4) -125 | (3) 240 (4) 2370 (SSC CGL Tier-I (CBE) Exam. 07.09.2016) (Ist Sitting) 100. If - stands for division, + for multiplication, \div for subtraction and \times for addition, then which of the following equations is correct? (1) 20 - 4 + 6 \div 9 \times 4 = 25 (2) 20 + 6 - 4 \times 9 \div 6 = 32 (3) 20 \div 9 \times 9 - 4 + 6 = 33 (4) 20 \times 4 - 6 - 4 $+$ 9 = 20 10 | (5) 112 (5) 20 (SSC CGL Tier-I (CBE) Exam. 09.09.2016) (IInd Sitting) 6. If ' + ' means minus , '-' means multiplication, '+' means plus, and 'x' means division, then $15 - 3 + 10 \times 5 \div 5 = ?$ (1) 52 (2) 48 (3) 22 (4) 5 (SSC CGL Tier-I (CBE) Exam. 11.09.2016) (IInd Sitting) 7. If ' \div ' stands for subtraction, '-' stands for addition, 'x' stands for division and '+' stands for multiplication, then which one of | | | |
| (SSC CAPFs (CPO) SI & ASI, Delhi Police Exam. 05.06.2016) (Ist Sitting) | (SSC CGL Tier-I (CBE) Exam. 01.09.2016) (Ist Sitting) | the following equation is correct? | | | |

- SYMBOLS & NOTATIONS

| | | | 2 | IVI Y |
|------|--|----|----|---------------|
| | (1) 35 ÷ 4 – 25 × 5 + 5 = 28 | I | | divi |
| | (2) $35 \div 4 - 25 \times 5 + 5 = 61$ | | | sub |
| | (3) $35 \div 4 - 25 \times 5 + 5 = 41$ | | | thet |
| | (4) $35 \div 4 - 25 \times 5 + 5 = 56$ | | | (1) 9 |
| | (ssc cgl Tier-I (CBE) | | | (2) |
| | Exam. 03.09.2016) (IInd Sitting) | | | (3) |
| 108. | If '+' means '×', '-' means '÷', '×' | | | (4) |
| | means '-' and '+' means '+', then | | | (1) |
| | what will be the value of 16 \div 4 × | | | |
| | 10 - 5 + 8 = ? | 11 | 5. | lf – |
| | (1) 12 (2) 8 | | | mea |
| | (3) 4 (4) 2 | | | of t |
| | (SSC CGL Tier-I (CBE) | | | corr |
| | Exam. 07.09.2016) (IInd Sitting) | | | (1) 4 |
| 109. | If '+' means '+' , '-' means '×' , '+' | | | (2) 4 |
| | means '+' and '×' means '-', then $36 \times 12 + 4 \div 6 + 2 - 3 = ?$ | | | (3) 3 |
| | $50 \times 12 + 4 \div 0 + 2 = 5 = :$ | | | (4) 4 |
| | (1) 2 (2) $6\frac{1}{2}$ | | | |
| | (1) 2 (2) 3 2 | 11 | 6 | If 'P |
| | (3) 18 (4) 42 | | 0. | mea |
| | (SSC CGL Tier-I (CBE) | | | '-', t |
| | Exam. 08.09.2016) (IInd Sitting) | | | (1) 2 |
| 110. | If '+' means '/', '/' means '-', '-' | | | (3) 1 |
| | means '×', '×' means '+', then | | | |
| | $24 + 8/26 \times 6 = ?$ | | _ | 16. |
| | (1) -10 $(2) -3$ $(1) -10$ $(2) -3$ $(2) -3$ $(2) -3$ $(2) -3$ $(3) -31$ $(3) -31$ | 11 | 1. | lf ' · mul |
| | (3) 12 (4) 21 (SSC CGL Tier-I (CBE) | | | '×' n |
| | Exam. 09.09.2016) (IInd Sitting) | | | 15 - |
| 111. | If '+' means 'divided by', '-' means | | | (1) 5 |
| | 'multiplied by', 'x' means 'minus' | | | (3) 2 |
| | and '+' means 'plus', which of the | | | |
| | following will be the value of the | | | |
| | expression : | 11 | 8. | lf '+ |
| | $16 \div 8 - 4 + 2 \times 4 = ?$ | | | mea |
| | (1) 16 (2) 28 | | | 12 : |
| | (3) 32 (4) 44 (SSC CGL Tier-I (CBE) | | | (1) 3 |
| | Exam. 10.09.2016) (IInd Sitting) | | | (3) 4 |
| 112. | If × means +, + means ÷, - means | | | |
| | \times and \div means –, then 8 \times 7 – 8 | | | |
| | + 40 ÷ 2 = ? | | | |
| | | | | |
| | (1) 1 (2) $\frac{31}{5}$ | | | irec |
| | | | | tion |
| | (3) 8 = (4) 44 | | | espo d aco |
| | 5 | 50 | | lf – |
| | (SSC CGL Tier-I (CBE) | | •• | star |
| 112 | Exam. 11.09.2016) (IInd Sitting) Which of the following | | | for (|
| 115. | interchanges of numbers would | | | plic |
| | make the given equation correct? | | | ther |
| | $8 \times 20 \div 3 + 9 - 5 = 38$ | | | nati |
| | (1) (8, 9) (2) (3, 5) | | | (1) 2 |
| | (3) (3, 9) (4) (3, 8) | | | (2) 5 |
| | (SSC CGL Tier-I (CBE) | | | (3) |
| | Exam. 27.10.2016) (Ist Sitting) | | 10 | (4) |
| 11/ | If $'+'$ stands for multiplication $'-'$ | 1 | (2 | SSC (|

114. If '+' stands for multiplication, '-' stands for addition, '×' stands for

ision and '+' stands for otraction, then which one of following equations is correct? $9 + 8 - 4 \times 2 \div 18 = 56$ $9 \times 8 + 4 \div 2 - 18 = 26$ $9 \times 8 \div 4 + 2 - 18 = 200$ $9 - 8 \times 4 + 2 \div 18 = 203$ (SSC CGL Tier-I (CBE) Exam. 27.10.2016) (IInd Sitting) - means ÷ , + means ×, ÷ ans -, × means +, then which the following equations is rect? $43 \times 7 \div 5 + 4 - 8 = 25$ $48 \div 5 + 8 \times 10 - 2 = 03$ $36 \times 4 - 12 + 5 \div 3 = 420$ $42 + 5 \div 6 \times 8 - 3 = 28$ (SSC CGL Tier-I (CBE) Exam. 31.08.2016) (IInd Sitting) P' means '+', 'Q' means '*', 'R' ans '+', and 'S' means then 44Q9R12S6Q4P16 = ? 25 (2) 36112 (4) 12 (SSC CGL Tier-I (CBE) Exam. 02.09.2016) (IInd Sitting) + ' means minus , '-' means Itiplication, '+' means plus, and neans division, then - 3 + 10 × 5 ÷ 5 = ? 52 (2) 48 22 (4) 5 (SSC CGL Tier-I (CBE) Exam. 11.09.2016) (Ist Sitting) +' means 'x', '-' means '+', 'x' ans '+' and '+' means '-', then $\times 2 + 6 - 7 \div 5 = ?$ 38 (2) 39 40 (4) 37 (SSC Multi-Tasking Staff Exam. 30.04.2017 Ist Sitting) TYPE-I (ii) ctions (1) : In the following you have to identify the coronse from the given premises

ated according to following symbols.
1. If → stands for addition, ← stands for subtraction, ↑ stands for division, ↓ stands for multiplication, ↗ stands for equal to then which of the following alternatives is correct?

$$(1) 2 \downarrow 5 \leftarrow 6 \rightarrow 2 \nearrow 6$$

$$(2) 5 \rightarrow 7 \leftarrow 3 \mid 2 \not = 4$$

$$(3) \ 3 \ \forall \ 0 \ | \ 2 \ \rightarrow \ 3 \ \leftarrow \ 0 \ / \ 3$$

$$(4) 7 \leftarrow 43 \uparrow 6 \downarrow 1 \nearrow 4$$

(SSC Combined Graduate Level Prelim Exam.11.05.2003 (Ist Sitting)

TYPE-I (iii)

If 'a 'denotes '÷', 'b' denotes '+', 'c' denotes '-', 'b' denotes '×', then 24a6d4b9c8 = ?
 (1) 2
 (2) 17

(3) 34 (4) 19

(SSC Combined Matric Level (PRE) Exam. 13.05.2001 (Ist Sitting)

 A stands for 'addition', B for 'subtraction', C for 'division', D for 'multiplication', E for 'less than', F for 'greater than' and G for 'equal to'.

Out of the alternatives only one expression is correct according to the letter symbols. Identify that.

(1) 18 C 2 A 4 B 6 G 9
(2) 6 D 4 B 12 A 4 C 2 F 18
(3) 10 C 2 D 4 B 6 E 12
(4) 9 A 7 B 4 C 2 G 14

(SSC CPO Sub-Inspector Exam. 03.09.2006)

3. If P denotes +, Q denotes -, R denotes ÷ and S denotes ×, then 18 S 36 R 12 Q 6 P 7 = ?

(1) 115 (2) 25

(3) 55 (4) $\frac{648}{13}$

(SSC CPO Sub-Inspector Exam. 03.09.2006)

Directions (4-5) : In the following questions you have to identify the correct response from the given premises stated according to following symbols

- 'A' stands for 'equal to'
- 'B' stands for 'less than'
- 'C' stands for 'greater than'
- 'D' stands for 'not greater than'
- 'E' stands for 'not equal to'
- 'F' stands for 'not less than' (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist, IInd Sitting)
- 4. Permises (3XB2Y) and (2YDZ)

| (1) 3 X A Z | (2) 3 X D Z |
|-------------|-------------|
| | |

- (3) 3 X F Z (4) 3 X B Z
- 5. Premises : (7X B 3Y) and (6Y D 2Z)

(1) 7X C 2Z (2) 7X B 2Z

- (3) 7X D 2Z (4) 7X A 2Z
- 6. If J represents +, K represents-, L represents ÷ and M represents ×, then
 18 M 36 L 12 K 6 J 7 = ?

| (1) 115 (2) 55 648 | (1) 18F 3B 6E 8G 4E 12 (2) 18C 3G 6B 8B 4D 12 | 19. If P denotes ÷, Q denotes ×, R denotes + and S denotes –, then |
|--|---|---|
| (3) $\frac{648}{18}$ (4) 25 | (3) 18A 3E 6B 8G 4B 12 | 12 Q 15 P 3 R 4 S 6 = ? (1) 70 (2) 57 |
| (SSC Combined Matric Level (PRE) Exam. 21.05.2000 | (4) 18C 3D 6B 8C 4G 12 SSC Combined Matric Level (Pre) Exam. | (3) 58 (4) 68 |
| (Ist Sitting (East Zone) | 12.05.2002 (IInd Sitting) 13. If 'P' stands for '-', 'Q' stands for | (SSC Graduate Level Tier-I Exam. 19.05.2013, Ist Sitting) |
| 7. $+$ - x \div = > < B G E C D A F | 'x', 'R' for '÷' and 'S' for '+', then what is the value of the given equation? | 20. You have to follow the symbolic interpretation to solve the ques- |
| Of the four alternatives only one | 14 Q 3 P 12 S 4 R 2 = ? | tion. + = Greater than |
| expression has the correct rela- tionship. Identify that and indi- | (1) 17 (2) 32 (2) 28 (4) 6 | × = Equal to |
| cate your answer. | (3) 28 (4) 6 (SSC CISF Constable (GD) | - = Not less than |
| (1) 15 C 15 B 8 F 4 B 6 C 3 (2) 15 B 5 G 8 B 4 G 6 F 3 | Exam. 05.06.2011) 14. If L denotes ×, M denotes ÷, P | L = Not equal to = Less than |
| (2) 15 B 5 G 8 B 4 G 6 F 3 (3) 15 A 5 E 8 C 4 B 6 E 3 | denotes + and Q denotes -, then | ϕ = Not greater than |
| (4) 15 C 5 F 8 C 4 B 6 C 3 | find the value of | Then if $A - B \phi C$, which of the |
| (SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) | 16 P 24 M 8 Q 6 M 2 L 3 = ? (1) 6 (2) 8 | following is implied ? (1) A B + C (2) A B C |
| (Raipur, Madhya Pradesh) | (3) 10 (4) 12 | (i) $A + B - C$ (i) $A + B + C$ (3) $A + B - C$ (i) $A \phi B + C$ |
| 8. If A represents +, B represents -, C represents × and D represents | (FCI Assistant Grade-II Exam. 22.01.2012 Paper-I) | (SSC Graduate Level Tier-I |
| ÷, then which of the following | 15. If A stands for 'addition', M for | Exam. 19.05.2013, Ist Sitting) 21. If A stands for +, Q stands for - |
| statements is true? (1) 8B6D2A4C3 = 15 | 'multiplication', D for 'division', G for 'greater than' and L for 'Less- | , V stands for \times , R stands for \div , |
| (1) $9000000000000000000000000000000000000$ | er than' then which of the follow- | then what is the value of the giv- en equation ? |
| (3) $8A8B8C8 = -48$ | ing will be logically correct? | 225 R 5 A 64 Q 13 V 6 = ? |
| (4) 3A3B3C3A3D3 = 4 (SSC Combined Matric Level (PRE) | (1) 20A 4D 4L 4A 6D2 (2) 20 D 5G 8D 4A 6M3 | (1) 376 (2) 15 (3) 476 (4) 576 |
| Exam. 21.05.2000 (Ist Sitting) | (3) 20D 4A 4L 4A 2M3 | (3) 476 (4) 576 (SSC Graduate Level Tier-I |
| (Raipur, Madhya Pradesh) 9. If A means '×', D means '+' and G | (4) 20A 2G 10M 3A 12D 2 ECI Assistant Grade-III Exam. 05.02.2012 | Exam. 19.05.2013, Ist Sitting) |
| means '-', find the value of | (Paper-I) East Zone (IInd Sitting) | 22. If 'P' denotes' 'multiplied by', 'T' denotes 'subtracted from', 'M' |
| 7A4D4A3G2 (1) 28 (2) 38 | X stands for +, Z stands for ÷, Y stands for –, and P stands for ×, | denotes 'added to' and 'B' denotes |
| (3) 44 (4) 48 | then what is the value of 10 P 2 | 'divided by' then : what should be the correct response of |
| (SSC Combined Matric Level (PRE) Exam. 13.05.2001 (Ist Sitting) | X 5 Y 5 ? (1) 10 (2) 15 | 12 P 6 M 15 T 16 B 4 ? |
| 10. If $L = +$, $M = -$, $N = x$, $P = \div$, | (3) 20 (4) 25 | (1) 70 (2) 75 (3) 83 (4) 110 |
| then 5 N 5 P 5 L 5 M 5 = ? | FCI Assistant Grade-III Exam. 25.02.2012 (Paper-I) North Zone (Ist Sitting) | (SSC Graduate Level Tier-I |
| (1) 0 (2) 5 (3) 10 (4) 15 | 17. If 'P' means ' $+$ ' 'Q' means '×' 'R' | Exam. 19.05.2013, IInd Sitting) |
| (SSC Combined Matric Level (PRE) | means '÷' and 'S' means '–', then : | 23. If + = Greater than, ϕ = Not greater than, - = Not less than, × = |
| Exam. 13.05.2001 (IInd Sitting) 11. If $L \rightarrow +$, $M \rightarrow -$, $N \rightarrow \times$, $P \rightarrow \div$, | 44 Q 9 R 12 S 6 Q 4 P 16 = ? | Equal to, = Less than and L = |
| then 14 N 10 L 42 P 2 M 8 = ? | (1) 25 (2) 112 | Not equal to, then of A B × C which of the following is true ? |
| (1) 153 (2) 216 (3) 248 (4) 251 | (3) 36 (4) 124 (SSC Graduate Level Tier-I | (1) B + C A (2) C – B + A |
| (SSC Combined Matric Level | Exam. 21.04.2013, Ist Sitting) | (3) $B \mid A \mid C$ (4) $A \phi B \mid C$ |
| (PRE) Exam. 27.05.2001 (IInd Sitting (East Zone) | 18. If 'R' stands for '-', 'A' stands for '+', 'B' stands for '÷' and 'C' stands | (SSC Graduate Level Tier-I Exam. 19.05.2013, IInd Sitting) |
| 12. Some symbols are represented by | for 'x', then what is the value, of | 24. Identify one response which would be a correct inference |
| alphabets as | the given equation? (BODMAS rule will not be applicable) | from the given premises stated |
| + - × ÷ = > < B G E C D A F | 25 A 37 C 2 B 4 R 1 = ? | according to the following sym- bols : |
| of the four alternatives only one | (1) 32 (2) 35 (3) 30 (4) 27 | 'A' stands for not greater than |
| expression has the correct rela- | (SSC Graduate Level Tier-I | 'B' stands for equal to |
| tionship. Indentify that : | Exam. 21.04.2013, IInd Sitting) | 'C' stands for less than |

- SYMBOLS & NOTATIONS

'D' stands for not less than 'E' stands for not equal to 'F' stands for greater than Premises (2 M B N) and (2N A 3K) (1) 2M D 3K (2) 2M B 3K (3) 2M C 3K (4) 2K B 3N (SSC Graduate Level Tier-I Exam. 19.05.2013, IInd Sitting) 25. 'B' stands for addition, 'G' stands for subtraction, 'E' stands for multiplication, 'C' stands for division, 'D' stands for equal to, 'A' stands for greater than, 'F' stands for less than. In each of the four alternatives, only one expression is correct according to the letter symbol. Identify that expression. (1) 15 C 3 B 2 A 6 E 2 (2) 15 B 2 G 5 A 4 G 4 (3) 15 C 3 B 2 D 6 B 1 (4) 15 B 3 D 4 E 6 (SSC Graduate Level Tier-I Exam. 21.04.2013, IInd Sitting) 26. If A denotes +, B denotes - and C denotes x, then (10 C 4) A (4 C 4) B 6 = ? (1) 46 (2) 50 (3) 55 (4) 58 (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014) 27. If P denotes +, Q denotes -, R denotes '+', and S denotes x then: 18S36R12Q6P7 = ? (1) 115 (2) 65 (3) 55 (4) 25 (SSC CGL Tier-I (CBE) Exam.11.09.2016) (Ist Sitting) 28. If P denotes ÷, Q denotes ×, R denotes + and S denotes - then value of what is the 18Q12P4R5S6? (1) 64 (2) 53 (3) 81 (4) 24 (SSC CGL Tier-I (CBE) Exam. 01.09.2016) (Ist Sitting) 29. If A means +, B means ×, C means ÷, D means –, then the value of given equation will be 9A2B6D4C2 (2) 19(1) 16 (3) 27 (4) 30 (SSC CGL Tier-I (CBE) Exam. 04.09.2016) (Ist Sitting) **30.** If D stands for ×, S stands for +, A stands for – and M stands for ÷, what is the value of the given expression

28 D 6 S 34 M 2 A 8 D 6 ?

| | | DOLU U | | |
|-------------|-------|-----------------|-------------------|------------------------------------|
| | (1) | 558 | (2) | 3312 |
| | | 137 | (4) | |
| | (-) | | | GL Tier-I (CBE) |
| | | | | 16) (IInd Sitting) |
| 31. | lf 'A | A' stands fo | or '+', | 'B' stands for |
| | | | | ×', what is the |
| | val | ue of (10C- | 4) A (| (4C4) B6 = ? |
| | (1) | 46 | (2) | 50 |
| | (3) | | | 60 |
| | | (5 | SSC C | GL Tier-I (CBE) |
| | | | | 16) (IInd Sitting) |
| 32. | | | | denotes ÷, c |
| | | | | enotes –, then |
| | 8 a | 3 c 24 b | | |
| | (1) | 17 | (2) | |
| | (3) | 14 | (4) | 8 |
| | | | | GL Tier-I (CBE) |
| | | | | 016) (Ist Sitting) |
| 33. | | | | denotes ×, D |
| | | | | notes +, then |
| | | C3A12E4D | | |
| | (1) | | (2) | |
| | (3) | | | 32 |
| | | F 01 | SSC C | GL Tier-I (CBE) |
| ~ 4 | 1.5 A | Exam. 01.0 | 9.20 | 16) (IInd Sitting) |
| 34. | | denotes ' | +', B | denotes '', C |
| | | | | D denotes '÷', he following |
| | | tement is t | | ne ionowing |
| | | 8B6D2A4 | | 15 |
| | | 8A8B8C8 | | |
| | | | | |
| | | 9C9B9D9 | | |
| | (4) | 3A3B3C3 | | |
| | | | | GL Tier-I (CBE) (IIIrd Sitting) |
| 25 | If D | | | ply, T denotes |
| 3 5. | | | | notes addition, |
| * | | | | then 28 B 7 P |
| | | 6 M 4 = ? | | |
| | (1) | 28 | (2) | 30 |
| | (3) | | | 34 |
| | (0) | | | GL Tier-I (CBE) |
| | | Exam. 08.0 | 9.20 [°] | 16) (IIIrd Sitting) |
| 36. | lf L | | | denotes '÷', P |
| | | | | enotes '', then |
| | 16 | P 24 M 8 | Q 6 I | M 2 L 3 |
| | | 10 | | 1 |
| | (1) | $\frac{13}{6}$ | (2) | $\frac{-1}{6}$ |
| | | 6 | . , | 0 |
| | | 1 | | |
| | (3) | $14\frac{1}{2}$ | (4) | 10 |
| | | | 550 0 | GL Tier-I (CBE) |
| | | | | 16) (IIIrd Sitting) |
| 37. | lf 'L | | | 'M' stands for |
| | | | | ', P stands for |
| | | hon | | |

'+' then

14 N 10 L 42 P 2 M 8 = ?

| (1) 153 (2) 216 (3) 248 (4) 251 (SSC CGL Tier-I (CBE) Exam. 04.09.2016) (IInd Sitting) 38. If P denotes '+', Q denotes 'x', R denotes '+' and S denotes '+', then 18 Q 12 P 4 R 5 S 6 = ? (1) 53 (2) 54 (3) 57 (4) 95 (SSC CGL Tier-I (CBE) |
|---|
| Exam. 06.09.2016) (find Sitting) 39. If "K" means "subtracted from", "L" means "divided by", "M" means "added to" and "D" means "multiplied by", then 96 L 4 K 6 M 11 D 9 = ? |
| (1) 117 (2) 125 (3) 120 (4) 145 (SSC CHSL (10+2) Tier-I (CBE) Exam. 16.01.2017) (IInd Sitting) |
| TYPE-I (iv) |
| 1. If X stands for addition, V stands for subtraction, U stands for 'equal to', Λ stands for division, Σ stands for multiplication, $_{\Box}$ stands for greater than and σ stands for less than. State which expression is true. (1) 3 X 8 V 2 U 12 Λ 3 (2) 13 V 12 X 9 V 2 $_{\Box}$ 5 Σ 1 (3) 2 Σ 3 Σ 4 σ 51 Λ 3 (4) 3 Σ 2 Σ 4 U 2 X 7 V 3 (SSC SAS Exam. 26.06.2010 (Paper -I) 2. If +, -, ×, ÷, =, > and < are rep- resented as δ , , γ , η , ω , β and α respectively, then which of the following is correct ? (1) 3 γ 6 η 2 δ 8 • 4 ω 5 (2) 3 η 6 γ 2 δ 8 • 4 β 5 (3) 3 γ 6 • 2 δ 8 η 4 α 5 |
| (4) 3 δ 6 • 2 γ 8 η 4 ω 5 (SSC CPO (SI, ASI & Intelligence Officer) Exam. 28.08.2011 (Paper-I) 3. If 'S' is written as 'H', 'R' as '@', 'A' as '∇□', 'M' as '#', 'T' as '\$' and 'E' as '%'] then how is 'MASTER' written in that code ? (1) #∇H\$%@ (2) #H∇\$%@ (3) #∇\$H%@ (4) #∇H%@\$ |

4. If # is the brother of @, ≠ is the daughter of @, \$ is the sister of #, and & is the borther of ≠, then who is the uncle of & ?

23 www.jkchrome.com

| SYMBOLS & NOTATIONS | | | | |
|----------------------------------|---|---|--|--|
| (1) \$ (2) \neq (3) @ (4) # | TYPE-I (v) | then write the answer in symbol $$ ÷ $$ = ? | | |
| | TYPE-I (v)1. If $\bigcirc = 6$, $\triangle = 3$, $\bigcirc = 5$, $\diamondsuit = 4$, $\bigcirc = 8$, $\bigcirc = 10$, then $(\bigcirc \times \triangle) \div \diamondsuit = ?$ (1) \bigcirc (2) \diamondsuit (3) \Box (4) \triangle (SSC CPO (SI, ASI & Intelligence | | | |
| Exam. 15.01.2017) (IInd Sitting) | () = 3 | I | | |

- SYMBOLS & NOTATIONS

(1) $5 > 8 + 4 = 10 < 4 \times 8$ If $x \angle y + z$, which of the follow-(1) a 🗌 c (2) b 🔿 d (2) $3 \times 4 > 2 - 9 + 3 < 3$ ing implied? (3) *b* ∏ *d* (4) b # d (1) $x \times y \mid z$ (2) $x - y \times z$ (3) $5 \times 3 < 3 \div 8 + 4 \times 1$ (SSC CHSL (10+2) LDC, DEO (4) $3 \times 2 < 4 \div 16 > 2 + 4$ (3) $x \angle y \phi z$ (4) $x - y \angle z$ & PA/SA Exam, 20.12.2015 (SSC Graduate Level Tier-I (SSC CAPFs SI, CISF ASI & DP SI (Ist Sitting) TF No. 9692918) Exam. 21.04.2013, Ist Sitting) Exam, 21.06.2015 IInd Sitting) 11. If ' * ' means subtraction; '-' 5. If '+' stands for 'multiplication', '<' 9. Identify the correct response means division, ' 🗌 ' means from the given premises stated stands for 'division', '+' stands for addition and '%' means according to following symbols. 'subtraction' multiplication, then find the value '-' stands for 'addition' and 'x' 'A' stands for not less than $(\not<)$ of : stands for 'greater than', identify 13 3 * 6 % 8 - 4 14 = ? 'B' stands for not equal to (\neq) which expression is correct. (2) 14 (1) 18 (1) $20 - 4 \div 4 + 8 < 2 \times 26$ 'C' stands for not greater than (>)(3) 12 (4) 8 (2) $20 \times 8 + 15 < 5 \div 9 - 8$ (SSC CGL Tier-I (CBE) 'D' stands for greater than (>) Exam. 06.09.2016) (IIIrd Sitting) (3) $20 < 2 + 10 \div 4 - 6 \times 100$ 'E' stands for less than (<) (4) $20 < 5 + 25 \div 10 - 2 \times 96$ TYPE-I (vi) (SSC Graduate Level Tier-I '🖬 stands for equal to (=) Exam. 21.04.2013, IInd Sitting) Premises : 4YF3X and 3XF6Z Directions : In the following ques-6. In the following problem, tion you have to identify the correct (1) 2 Y D 3 Z (2) 2 Y E 3 Z = stands for ÷ response from the given premises + stands for -(3) 4 Y B 5 Z (4) 2 Y F 3 Z stated according to following symbols. × stands for = (SSC CGL Tier-I Exam, 16.08.2015 **1.** If $> = \div$, < = +, $^{\wedge} = -$, $\times = <$, - stands for > (Ist Sitting) TF No. 3196279) - = >, + = = and $\vee = \times$ **10.** If '+' stands for '÷', '-' stands for > stands for + (1) $6 > 3 < 2^{4} \vee 8 - 13$ '=', '×' stands for '+', '÷' stands < stands for × (2) 6 ^ 3 < 2 > 4 \times 8 + 13 for greater than, '=' stands for + stands for < (3) 6 \(\times 3 \) ^ 2 > 4 < 8 \(\times 13) less than, '>' stands for multipli-When these new symbols are (4) $6 \lor 3 > 2 < 4^{8} \times 13$ cation and '<' stands for subtracsubstituted, only one will be (SSC Combined Graduate Level Prelim tion, then which of the following wrong. Identify the wrong one. Exam. 13.11.2005 (IInd Sitting) alternatives is correct? (1) $4 < 2 + 5 + 8 \times 5$ **2.** If $> = \div$, $V = \times$, < = +, $^{\wedge} = -$, + (1) $5 \div 2 \times 1 = 3 + 4 > 1$ (2) $4 = 2 + 5 > 8 \times 5$ $=, \times = <, - = >$ (2) 5 > 2 × 1 - 3 > 4 < 1 (3) 4 < 2 > 5 + 8 × 5 (1) $6 > 2 > 3^{8} \vee 4 + 13$ (3) $5 \times 2 < 1 - 3 < 4 \times 1$ $(4) \ 4 > 2 < 5 + 8 - 5$ (2) 6 ^ 2 < 3 > 8 < 4 - 13 (4) $5 < 2 \times 1 \div 3 > 4 \times 1$ (SSC Graduate Level Tier-I (3) 6 \lor 2 < 3 ^ 8 > 4 × 13 (SSC CGL Tier-I (CBE) Exam. 19.05.2013, Ist Sitting) (4) 6 > 2 \lor 3 < 8 ^ 4 + 13 Exam. 27.08.2016) (Ist Sitting) 7. If > denotes +, < denotes -, + (SSC CPO Sub-Inspector **11.** If '+' means subtraction, '+' Exam. 06.09.2009) denotes ÷, ^ denotes ×, - denotes means addition, '<' means multi-3. If ÷ stands for 'greater than'. × plication and '>' means division, =, \times denotes > and = denotes <, stands for 'addition' + stands for choose the correct statement of then find the value of the given 'division', - stands for 'equal to', statement. The value of 9 ÷ 7 < 8 the following. > stands for 'multiplication', = > (4 > 2) + 5 will be (1) $13 > 7 < 6 + 2 = 3 ^ 4$ stands for 'less than', < stands (1) 32 (2) 18 (2) 9 > 5 > 4 - 18 + 9 > 16for 'minus' then which of the fol-(3) 9 < 3 < 2 > 1 × 8 ^ 2 (3) 16 (4) 11 lowing alternatives is correct? $(4) 28 + 4^{2} = 6^{4} + 2$ (SSC CGL Tier-I (CBE) (1) 5 > 2 < 1 - 3 × 4 × 1 Exam. 29.08.2016) (IInd Sitting) (SSC CGL Tier-I (2) $5 < 2 \times 1 \div 3 > 4 \times 1$ 12. If '+' means division, '-' means Re-Exam-2013, 27.04.2014) $(3) 5 > 2 \times 1 - 3 > 4 < 1$ multiplication, '+' means subtrac-8. You have to follow the symbolic $(4) 5 + 2 \times 1 = 3 + 4 > 1$ tion, 'x' means addition and '<' interpretation to solve the prob-SSC Combined Matric Level (Pre) Exam. means less than, then which of lem 16.06.2002 (Re-Exam) the following is false? + = greater than 4. If x stands for addition, < for (1) $(10 + 2) \div 7 < (10 \div 7) + 2$ - = not less than subtraction, + stands for division, (2) $(10 - 7) \times 2 < (10 \times 2) - 7$ > stands for multiplication, -= less than (3) $(10 \times 7) - 2 < (10 - 2) \times 7$ stands for equation, + stands for ϕ = not greater than greater than, and = stands for (4) $(10 \div 2) + 7 < (10 + 7) \times 2$ \times = equal to less than, state which of the fol-(SSC CGL Tier-I (CBE) \angle = not equal to lowing is true? Exam. 31.08.2016) (Ist Sitting)

TYPE-I (vii)

1. In the following question you have to identify the correct response from the given premises stated according to the following symbols.

If ÷ stands for 'greater than', × stands for 'addition', + stands for 'division', - stands for 'equal to', > stands for 'multiplication', = stands for 'less than', < stands for 'minus', then which of the following alternatives is correct?

- (1) $3 + 2 < 4 \div 6 > 3 \times 2$ (2) $3 \times 2 < 4 \div 6 + 3 < 2$
- (3) $3 > 2 < 4 6 \times 3 \times 2$
- (4) $3 \times 2 \times 4 = 6 + 3 < 2$

(SSC Combined Graduate Level Prelim Exam. 11.05.2003 (IInd Sitting)

Direction (2) : In the following question you have to identify the correct response from the given premises stated according to following symbols.

2. If '+' stands for 'division', '-' stands for 'equal to', 'x' stands for 'addition', '+' stands for 'greater than', '=' stands for 'less than', '>' stands for 'multiplication', and '<' stands for 'subtraction', then which of the following alternatives is correct?

 $(1) 5 + 2 \times 1 = 3 + 4 > 1$ (2) $5 > 2 \times 1 - 3 > 4 < 1$

- (3) $5 \times 2 < 1 3 < 4 \times 1$
- (4) $5 < 2 \times 1 \div 3 > 4 \times 1$

```
(SSC Combined Graduate Level Prelim
       Exam. 08.02.2004 (Ist Sitting)
```

3. If ® stands for +, - stands for ®, stands for +, stands for ×, オ stands for =, which one is correct ?

(1) 2 5 - 6 8 2 7 6 (2) 5 ® 7 ¬ 4 2 7 3 (3) 3 -62 ® 3 ¬ 6 15 ´6⁻1 7/4 43

> (SSC CPO Sub-Inspector Exam. 09.11.2008)

4. Some equations are solved on the basis of a certain system. Find out the correct answer for the unsolved equation on that basis.

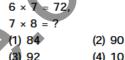
If 8 + 8 = 72, 5 + 5 = 30 and 7 + 7 = 56, what is 6 + 6 = ? (1) 40 (2) 42 (3) 30 (4) 36 (FCI Assistant Grade-II Exam. 22.01.2012 Paper-I)

-| SYMBOLS & NOTATIONS |--

- 5. Some equations are solved on the basis of a certain system. Find out the correct answer for the unsolved equation on that basis. If $3 \div 5 = 5$, $4 \div 7 = 8$, $8 \div 7 = 6$ then, what should 9 ÷ 6 be ? (1) 4 (2) 9(3) 5 (4) 6 FCI Assistant Grade-III Exam. 25.02.2012 (Paper-I) North Zone (Ist Sitting) 6. Some equations are solved on the basis of a certain system. On the same basis find out the correct answer for the unsolved equation. If $8 \times 2 = 61$; $8 \times 5 = 04$, what is 8 × 10 = ? (1) 80 (2) 08 (3) 8 (4) 0 FCI Assistant Grade-III Exam. 05.02.2012 (Paper-I) East Zone (IInd Sitting) If SENT is written as '+ ^ × -' and ANT is written as '* × -', then how is TEN written in that code? (2) - ^ × (1) × + -(4) - × ^ (3) (SSC Graduate Level Tier-I Exam. 19.05.2013, Ist Sitting) 8. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis. 5 + 7 + 2 = 725, 6 + 9 + 0 =906, 8 + 4 + 3 = ?(1) 815 (2) 384 (3) 438 (4) 834(SSC Multi-Tasking (Non-Tech.) Staff Exam. 16.02.2014) 9. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis. 7 - 4 - 1 = 7149 - 2 - 3 = 9328 - 0 - 4 = ?(1) 804 (2) 840 (3) 408 (4) 480 (SSC Multi-Tasking Staff (Patna) Exam. 16.02.2014) Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis. 678 = 366, 567 = 255, 946 = ? (2) 499 (1) 334 (3) 699 (4) 634(SSC Multi-Tasking (Non-Tech.) Staff Exam. 23.02.2014, IInd Sitting)
- **11.** If 1 + 4 = 9, 2 + 8 = 18, 3 + 6 =
 - 15 then 7 + 8 = ?
 - (1) 41(2) 23
 - (3) 30 (4) 32

(SSC CGL Tier-I

- Re-Exam-2013, 27.04, 2014) 12. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.
 - $4 \times 5 = 42$, $5 \times 6 = 56$



- (4) 102
- (SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)
- 13. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.
 - $58 \times 12 = 4, 37 \times 96 = 5,$ $11 \times 20 = 2, 42 \times 12 = ?$
 - (1) 2 (2) 3 (3) 4 (4) 5

(SSC GL Tier-I Re-Exam. (2013) 20.07.2014, Ist Sitting)

14. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

| 5 × 8 = 28, 3 × 7 = 12, 8 × 6 = | - |
|---------------------------------|---|
| 35, 13 × 13 = ? | |
| | |

(1) 169 (2) 130

(3) 140(4) 144

```
(SSC GL Tier-I Re-Exam. (2013)
       20.07.2014, IInd Sitting)
```

Directions (15-16) : In each of the following questions, some equations are solved on the basis of certain system. Find out the correct answer for the unsolved equation on that basis.

| ne u | nsolved equation | in on that basis. |
|------|----------------------------|-----------------------|
| | (S | SC GL Tier-I Exam. |
| | 19. | 10.2014, Ist Sitting) |
| 15. | $2 \times 4 \times 6 = 4;$ | 9 × 3 × 7 = 13; |
| | $4 \times 7 \times 6 = 3;$ | 9 × 7 × 8 = ? |
| | (1) 10 | (2) 09 |
| | (3) 08 | (4) 07 |
| 16. | 3 × 5 × 7 × 2 = | 24, 2 × 4 × 6 × 8 |
| | = 22, 4 × 4 × 8 | 3 × 9 = ? |
| | (1) 33 | (2) 25 |
| | (3) 144 | (4) 1152 |
| | | |

-| SYMBOLS & NOTATIONS |-

28. In this question, some equations **17.** If $7 \times 8 = 49$, $4 \times 4 = 12$ and 5 7 (2)are solved on the basis of a cer- $6 \times 4 = 18$, what will 9×6 be? tain system. On the same basis (1) 54 6 4 find out the correct answer from (3)(2) 50 amongst the four alternatives for (3) 45 the unsolved equation, 5 7 (4) $6 \times 2 \times 9 = 269$ (4) None of the above (SSC CGL Tier-I Exam. 19.10.2014 $8 \times 7 \times 1 = 781$ (SSC GL Tier-I Exam. 19.10.2014) TF No. 022 MH 3) $4 \times 1 \times 3 = ?$ 18. Some equations are solved on the 23. If 0, 1, 2, 3, ..., 9 is written as basis of a certain system. Find (1) 431 a, b, c, d,, j then find the correct answer for the un-(4) 143 (3) 341 $dc \times f - (bf - d) \times d$. solved equation on that basis. (SSC CGL Tier-I (CBE) Exam. 09.09.2016) (Ist Sitting) 5 (•) 3 = -7; 3 (•) 7 = -11; 7 (•) 11 = ? (1) *bcf* (2) abe **29.** In this question, some equations (3) abb (4) bce (1) - 59 (2) 77 are solved on the basis of a cer-(SSC CHSL (10+2) LDC, DEO tain system. On the same basis (3) - 15 (4) 18 & PA/SA Exam, 20.12.2015 find out the correct answer from (SSC GL Tier-I Exam. 26.10.2014) (Ist Sitting) TF No. 9692918) amongst the four alternatives for 19. Some equations are solved on the 24. Some equations have been solved the unsolved equation. basis of a certain system. On the on the basis of a certain system. $3 \times 4 \times 5 = 435$ same basis, find out the correct Find the correct answer for the $4 \times 3 \times 2 = 342$ answer for the unsolved equation. $2 \times 3 \times 4 = ?$ unsolved equation on that basis $2 \times 3 \times 4 = 432$ (1) 324 (2) 342 If 29 × 13 = 14, 76 × 26 = 34, $5 \times 6 \times 7 = 765$ (3) 432 (4) 243 then 64 × 14 = ? (SSC CGL Tier-I (CBE) $7 \times 8 \times 9 = 987$ (1) 39 (2) 32 Exam. 27.08.2016) (Ist Sitting) $2 \times 5 \times 7 = ?$ (3) 26 (4) 54 **30.** If 17 + 17 = 2895 (1) 572 (2) 752 (SSC (10+2) Stenographer Grade 'C' 18 + 18 = 3245(3) 725 (4) 257 & 'D' Exam. 31.07.2016) 19 + 19 = 3615(SSC CHSL (10+2) DEO & LDC **25.** If 4 × 5 × 2 = 524, 3 × 7 × 2 = then, 23 + 23 = ? Exam. 09.11.2014) 723 and 6 × 8 × 7 = 876 then 9 (1) 5765 (2) 5295 **20.** If 2 × 16 = 8; 8 × 8 = 1; 6 × 12 = × 4 × 5 = ? 2, then 12 × 144 = ? (3) 2565 (4) 4005 (1) 495 (2) 459 (1) 11 (2) 12 (SSC CGL Tier-I (CBE) (3) 549 (4) 954 Exam. 27.08.2016) (IInd Sitting) (3) 16 (4) 24 (SSC CGL Tier-I (CBE) **31.** If 24 × 2 = 84, and 32 × 3 = 69, (SSC CHSL (10+2) DEO & LDC Exam. 10.09.2016) then $13 \times 3 = ?$ Exam. 16.11.2014, Patna Region 26. Some equations have been solved (1) 38 (2) 93 (Ist Sitting) on the basis of certain system. (3) 16 (4) 10 **21**. Some equations are solved on the Find the correct answer for the basis of a certain system. Using (SSC CGL Tier-I (CBE) the same, solve the unsolved unsolved equation on that basis. Exam. 31.08.2016) (Ist Sitting) equation. If 98 - 39 - 27 = 31, 87 - 38 -**32.** If 4 + 3 = 25 and 8 + 4 = 80, 12.12 - 4 = 13.lf 10 - 3 then, 3 + 2 = ?34 = 20, then 79 - 25 - 12 = ? 14 - 5 = 14, then 16 - 6 = ?(1) 15 (2) 10 (1) 51 (2) 22 (1) 10 (2) 15(3) 13 (4) 12 (3) 42 (4) 15 (3) 16 (4) 18 (SSC CGL Tier-I (CBE) (SSC CGL Tier-I (CBE) (SSC CHSL (10+2) DEO & LDC Exam. 01.09.2016) (Ist Sitting) Exam.11.09.2016) (Ist Sitting) Exam. 16.11.2014, Patna Region : **33.** If 12 × 16 = 188 and 14 × 18 = 27. In this question, some equations (Ist Sitting) 248, then find the value of are solved on the basis of a cer-**22.** If 1 candle in box number 1 is $16 \times 20 = ?$ tain system. On the same basis placed in box number 2, then box (1) 320 (2) 360 find out the correct answer from - 2 has twice the number of candles that box 1 has. If 1 candle amongst the four alternatives for (3) 316 (4) 318 from box-2 is placed in box-1, the unsolved equation. (SSC CGL Tier-I (CBE) then box-2 and box-1 have the Exam. 02.09.2016) (Ist Sitting) 53 - 34 = 5334same number of candles. **34.** If 64 + 7 = 46065 - 46 = 6456How many candles were there in 43 + 8 = ?75 - 24 = ?box-1 and box-2? 25 + 8 = 212(1) 7542 (2) 7524 (1) 360 (2) 376 Box - 1 Box - 2 (3) 7452 (4) 7254 (3) 332 (4) 356 (SSC CHSL (10+2) Tier-I (CBE) (1) 5 (SSC CGL Tier-I (CBE) 3 Exam. 08.09.2016) (Ist Sitting) Exam. 02.09.2016) (IInd Sitting)

- SYMBOLS & NOTATIONS

| 35. If 6 × 9 × 3 = 963 and 4 × 8 × 5 | 42. If $5 \times 4 \times 0 = 405$ | (1) 258 (2) 285 |
|---|--|--|
| = 845, then 9 × 4 × 7 = ? | 3 × 2 × 8 = 283 | (3) 582 (4) 852 |
| (1) 974 (2) 479 | then $1 \times 7 \times 6 = ?$ | (SSC CGL Tier-I (CBE) |
| (3) 497 (4) 749 | (1) 617 (2) 716 | Exam. 08.09.2016) (IIIrd Sitting) |
| (SSC CGL Tier-I (CBE) | (3) 167 (4) 761 | 49. A certain system is followed to |
| Exam. 03.09.2016) (IInd Sitting) | (SSC CGL Tier-I (CBE) | solve the problem . Accordingly |
| 36. If, $4 \times 3 = 14$; $5 \times 4 = 18$; 6×5 | Exam. 30.08.2016) (IInd Sitting) | find out the correct answer from |
| = 22, then find the value of 7 \times | 43. If 56 × 11 = 9, 37 × 13 = 6, 42 × | the alternatives for the unsolved |
| 6. | 12 = 3, then find the value of 87 | equation. |
| (1) 20 (2) 26 | × 77. | 7 × 4 × 9 = 479 |
| (3) 30 (4) 42 (SSC CGL Tier-I (CBE) | (1) 1 (2) 2 | 9 × 5 × 2 = 592 |
| Exam. 04.09.2016) (Ist Sitting) | (3) 3 (4) 4 | 6 × 9 × 5 = 965 |
| 37. In this question, some equations | (SSC CGL Tier-I (CBE) | 8 × 6 × 2 = ? |
| are solved on the basis of a cer- | Exam. 30.08.2016) (IInd Sitting) | (1) 286 (2) 682 |
| tain system. On the same basis | 44. Some equations are solved on the | (3) 628 (4) 268 |
| find out the correct answer from | basis of certain system. Find out the correct answer for unsolved | (SSC CGL Tier-I (CBE) |
| amongst the four alternatives for the unsolved equation. | equation on that basis : | Exam. 11.09.2016) (IInd Sitting) |
| $8 \times 5 \times 0 = 805$, $7 \times 4 \times 6 =$ | $4 \times 5 \times 8 = 584$ | 50. In this question, some equations |
| 764, 6 × 8 × 9 = ? | $7 \times 3 \times 9 = 397$ | are solved on the basis of a cer- |
| (1) 689 (2) 698 | 9 × 7 × 3 = ? | tain system. On the same basis |
| (3) 968 (4) 986 | (1) 397 (2) 793 | find out the correct answer from |
| (SSC CGL Tier-I (CBE) | (3) 973 (4) 739 | amongst the four alternatives for the unsolved equation. |
| Exam. 06.09.2016) (Ist Sitting) | (SSC CGL Tier-I (CBE) | $15 \times 26 = 6512$ |
| 38. If 34 = 39304, 27 = 19683, then 13 = ? | Exam. 31.08.2016) (IInd Sitting) | $29 \times 36 = 6923, 46 \times 54 = ?$ |
| (1) 2197 (2) 10648 | 45. If 879 = 8, 625 = 1, 586 = 9, | (1) 5464 (2) 4645 |
| (3) 56743 (4) 17576 | then 785 = ? | (3) 4564 (4) 4465 |
| (SSC CAPFs (CPO) SI & ASI, | (1) 6 (2) 7 | (S) 4304 (4) 4403 (SSC CGL Tier-I (CBE) |
| Delhi Police Exam. 05.06.2016) | (3) 8 (4) 9 (200 001 Time 1 (2005) | Exam. 03.09.2016) (IInd Sitting) |
| (Ist Sitting) | (SSC CGL Tier-I (CBE) Exam. 01.09.2016) (IInd Sitting) | 51. If 23 × 16 = 184, 37 × 10 = 185, |
| 39. If $1 \times 3 \times 5 = 1925$ and $7 \times 9 \times 11$ | 46. If 84 + 96 = 4842, | then 85 × 12 = ? |
| 11 = 4981121, then find the val- ue of 19 × 21 × 23 = ? | then 36 + 78 = ? | (1) 511 (2) 610 |
| (1) 361529441 (2) 361441289 | (1) 3918 (2) 3678 | (3) 510 (4) 410 |
| (3) 441361289 (4) 361441529 | (3) 3819 (4) 1839 | (SSC CGL Tier-I (CBE) |
| (SSC CGL Tier-I (CBE) | (SSC CGL Tier-I (CBE) | Exam. 06.09.2016) (IInd Sitting) |
| Exam. 01.09.2016) (Ist Sitting) | | 52. Some equations are solved on the |
| 40. Given equations are solved on the | 47. In this question, some equations | basis of certain system. Find the correct answer for the unsolved |
| basis of a certain system. Find | are solved on the basis of a cer- | equation on that basis. |
| the correct answer for the unsolved equation on that basis : | tain system. On the same basis find out the correct answer from | $5 \times 4 \times 3 = 70$, |
| 2 + 4 + 6 = 48 and $3 + 2 + 8 =$ | amongst the four alternatives for | $6 \times 5 \times 4 = 140$ |
| 48, then $2 + 5 + 7 = ?$ | the unsolved equation. | $7 \times 6 \times 5 = ?$ |
| (1) 48 (2) 70 | 462 = 551 | (1) 210 (2) 220 |
| (3) 14 (4) 59 | 398 = 487 | |
| (SSC CGL Tier-I (CBE) | 856 = ? | (3) 230 (4) 240 (SSC CGL Tier-I (CBE) |
| Exam. 02.09.2016) (Ist Sitting) | (1) 745 (2) 773 | Exam. 07.09.2016) (IInd Sitting) |
| 41. Some equations are solved on the basis of a certain system. On the | (3) 945 (4) 743 | 53. Some equations have been solved |
| same basis, find out the correct | (SSC CGL Tier-I (CBE) | on the basis of a certain pattern. |
| answer from amongst the four | Exam. 07.09.2016) (IIIrd Sitting) | Find the correct answer for the |
| alternatives to the unsolved equa- | 48. In this question, some equations | unsolved equation on that basis. |
| tion. | are solved on the basis of a cer- tain system. On the same basis | 8 × 7 × 6 = 765 |
| $1 \times 2 \times 3 = 231$ | find out the correct answer from | $5 \times 3 \times 2 = 421$ |
| 3 × 4 × 5 = 453 5 × 6 × 7 = ? | amongst the four alternatives for | $9 \times 6 \times 4 = ?$ |
| $5 \times 6 \times 7 = 7$ (1) 657 (2) 675 | the unsolved equation. | (1) 583 (2) 853 |
| (3) 756 (4) 765 | $7 \times 5 \times 6 = 576$, | (3) 841 (4) 481 |
| (SSC CGL Tier-I (CBE) | $4 \times 2 \times 5 = 245,$ | (SSC CGL Tier-I (CBE) |
| Exam. 28.08.2016) (Ist Sitting) | 8 × 2 × 5 = ? | Exam. 08.09.2016) (IInd Sitting) |
| | | |

54. In this question, some equations are solved on the basis of a certain system. On the same basis find out the correct answer from amongst the four alternatives for the unsolved equation. $7 \times 6 \times 8 = 678$ $8 \times 9 \times 7 = 987$ $6 \times 5 \times 7 = 567$ $5 \times 4 \times 6 = ?$ (1) 456 (2) 564(3) 645 (4) 654 (SSC CGL Tier-I (CBE) Exam. 09.09.2016) (IInd Sitting) **55.** If $6 \times 4 = 12$ $4 \times 12 = 24$ $12 \times 6 = 36$ then $6 \times 9 = ?$ (1) 35 (2) 24 (3) 27 (4) 31 (SSC CGL Tier-I (CBE) Exam. 11.09.2016) (IInd Sitting) 56. Some equations have been solved on the basis of certain system. Find out the correct answer for the unsolved equation on that basis. $9 \times 7 \times 4 = 794$, $3 \times 4 \times 6 = 436$, $4 \times 2 \times 7 = ?$ (1) 742 (2) 247 (3) 724 (4) 472 (SSC CGL Tier-I (CBE) Exam. 27.10.2016) (Ist Sitting) **57.** In this question, some equations are solved on the basis of a certain system. On the same basis find out the correct answer from amongst the four alternatives for the unsolved equation. 8 + 5 - 5 = 4512 + 6 - 5 = 7714 + 5 - 10 = (1) 60 (2) 80 (3) 58 (4) 76 (SSC CGL Tier-I (CBE) Exam. 27.10.2016) (IInd Sitting) 58. A certain system is followed to solve the problem . Accordingly find out the correct answer from the alternatives for the unsolved equation. $7 \times 4 \times 9 = 479$ $9 \times 5 \times 2 = 592$ $6 \times 9 \times 5 = 965$ 8 × 6 × 2 = ? (1) 286 (2) 682 (3) 628(4) 268

(SSC CGL Tier-I (CBE)

Exam. 11.09.2016) (Ist Sitting)

-| SYMBOLS & NOTATIONS |-

- TYPE-II 1. Which one of the following is correct? 6 * 3 * 4 * 45 (1) ÷, +, > (2) ÷, >, + $(4) + , > , \div$ $(3) >, \div, +$ (SSC Combined Graduate Level Prelim Exam. 27.07.2008 (Second- Sitting) 2. In the following question, * stands for any of the mathematical signs at different places, which are given as choices under each guestion. Select the choice with the correct sequence of signs which when substituted makes the question as a correct equation. 24 * 4 * 5 * 4 $(1) \times + =$ (2) = × $(3) + \times =$ (4) (SSC Combined Graduate Level Tier-Exam. 16.05.2010 (Ist Sitting) **3.** 25 * 2 * 6 = 4 * 11 * 0 Which set of symbols can replace 1) ×, -, ×, + (2) +, -, ×, + $(3) \times + \times - (4) \times + \times + \times$ SSC Combined Graduate Level Tier-1 Exam. 16.05.2010 (IInd Sitting) . Which one of the following responses is correct? 8 * 5 * 27 * 3 * 16 $(1) \times_{i} = - + (2) - = \times_{i} + (2)$ $(3) \times, =, +, (4) +, -, =, \times$ (SSC CISF ASI Exam. 29.08.2010 (Paper-I) 5. Which one of the following is cor-
- (1) x, =, -, + (2) -, =, x, +(3) x, =, +, - (4) +, -, =, x(SSC CISF ASI Exam. 29.08.2010 (Paper-I)) 5. Which one of the following is correct ? 96 * 6 * 8 * 2 (1) $\div, =, x$ (2) $x, =, \div$ (3) $=, \div, x$ (4) $=, x, \div$ (SSC CPO Sub-Inspector Exam. 12.12.2010 (Paper-I)) Directions (6-7) : What should be the correct signs of the equation to privice of the of the equation to privice of the of the equation to privice of the equation to 1

arrive at the given answer ? (SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting (East Zone)

6. 17 * 3 * 6 = 45
(1)
$$\times$$
, =, - (2) -, \times , =
(3) = \times - (4) \times - =

- **7**.3*2*1*7
 - (1) ×, +, = (2) +, ×, =
 - $(3) =, \times, +$ $(4) \times, =, +$

Direction (8) : In the following question you have to identify the correct response from the given premises stated according to following symbols. (SSC Combined Matric Level (PRE) Exam.

13.05.2001 (Ist Sitting)

- **8.** 12 * 3 * 4 * 8 * 0 (1) - + + (2) ÷ + ÷ (3) - - (4) ÷ + -**9.** Which alternative
- 9. Which alternative clearly indicates the rule followed in the following set of numbers? 7 * 4 * 8 * 2 * 24

(3) \times , -, \div (4) \times , \div , -

- (SSC Combined Matric Level (PRE) Exam. 13.05.2001 (IInd Sitting)
- **10.** Select the correct set of symbols which will fit in the given equation 5 * 0 * 3 * 5 * 20

 $(1) + - \times (2) \times + \times$ $(3) - + \times (4) \times \times \times$

(SSC Combined Matric Level (PRE) Exam. 27.05.2001 (IInd Sitting (East Zone)

Directions (11-12) : Select the correct set of symbols which will fit in the given equation.

SSC Combined Matric Level (Pre) Exam. 05.05.2002 (IInd Sitting) (North Zone Delhi)

- **11.** 23 * 26 * 27 (1) + 3 =; × 1 =
- (2) $\times 3 =; \times 1 =$ (3) + 3 =; + 1 =(4) $\times 3 =; + 1 =$ **12.** 65 * 40 * 11 * 36 (1) - and + (2) \times and \div (3) \div and + (4) + and \times **13.** Choose proper signs for sequential operations to produce the resultant figure: $31 * 1 * 2 * 1 \rightarrow 16$ (1) $\times \div \times =$ (2) $- + \div =$ (3) $+ - \times =$ (4) $- \div + =$ SSC Combined Matric Level (Pre) Exam.

SSC Combined Matric Level (Pre) Exam. 12.05.2002 (Ist Sitting)

14. The symbols for addition (+), subtraction (-), multiplication (×) and division (÷) will have to be inserted in the blank * in order to get answer 3 as shown in the equation :

20 * 5 * 8 * 2 * 17 = 3

| Find out which set below is cor- | |
|---|---|
| rect. | |
| $(1) - + \div \times \qquad (2) + - \times \div$ $(3) \times - \div + \qquad (4) \div + \times -$ | |
| $(3) \times - \div + (4) \div + \times -$ SSC Combined Matric Level | |
| (Pre) Exam. 30.07.2006 | |
| (IInd Sitting) (Central Zone) | |
| 15. In the following equation, select | |
| correc combination of mathemat- | |
| ical sings to replace * signs and | |
| to balance the equation 16 * 4 * 5 * 9 * 1 | |
| | |
| (1) $+ \div = \times$ (2) $\div + = \times$ (3) $\times = + -$ (4) $+ \times = \div$ | |
| (SSC Higher Secondary Level | |
| Data Entry Operator & LDC | |
| Exam. 27.11.2010) | |
| 16. Select the correct combination of | |
| mathematical signs to replace * | |
| signs and to balance the follow- ing equation. | |
| 7 * 5 * 5 * 4 * 10 | |
| (1) + ÷ – = | |
| (1) (2) | |
| $(3) \times + = \times$ | |
| $(4) + \times \div =$ | |
| (SSC Higher Secondary Level | |
| Data Entry Operator & LDC | |
| Exam. 28.11.2010 (Ist sitting) | |
| 17. If $34 * 12 = 23$, $28 * 76 = 52$, $27 \cdot 20$, (0 then what chevel 27) | |
| 97* 39 = 68 then what should 37 *73 be ? | N |
| (1) 32 (2) 25 | |
| (3) 86 (4) 55 | |
| (SSC Higher Secondary Level | |
| Data Entry Operator & LDC | |
| Exam. 28(11.2010 (Ist sitting) | |
| 18. Select the correct combination of | |
| mathematical signs to replace * signs so as to balance the equa- | |
| tion. | |
| 8 * 8 * 1 * 11 * 11 | |
| $(1) + = \div -$ (2) × + = ÷ | |
| $(3) \div \times + = (4) - + = \div$ | |
| (SSC Higher Secondary Level | |
| Data Entry Operator & LDC | |
| Exam. 28.11.2010 (IInd sitting) 19. Substitute the correct mathemat- | |
| ical symbols in place of * in the | |
| following equation: | |
| 16 * 4 * 5 * 14 * 6 | |
| (1) \div - = \times (2) - \times + = | |
| (3) $\div \times = +$ (4) $\div + = -$ | |
| (SSC Multi-Tasking (Non-Technical) Staff | |

(SSC Multi-Tasking (Non-Technical) Staff Exam. 20.02.2011)

-| SYMBOLS & NOTATIONS |-

20. Substitute the arithmetical signs in the place of * in the following equation : 7 * 7 * 2 * 1 = 12 (1) × - ÷ (2) + - × $(4) + \times (3) \times - +$ (SSC Multi-Tasking (Non-Technical) Staff Exam. 27.02.2011) 21. Some equations have been solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis. If 9 * 7 = 32, 13 * 7 = 120, 17 * 9 = 208, then 19 * 11 = ? (1) 150 (2) 180 (3) 210 (4) 240 (SSC Combined Graduate Level Tier-1 Exam. 26.06.2011 (Ist Sitting) 22. Which sequence of mathematical symbols can replace * in the given equation : 8 * 5 * 9 * 31 $(1) - \times =$ $(3) = \times -$ (4)(SSC Stenographer (Grade 'C' & 'D') Exam. 16.10.2011) 23. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 4 * 6 * 6 * 2 * 20 $(1) + \div = \div$ $(2) \times - + =$ $(4) - + = \div$ $(3) + - = \div$ SSC (10+2) Level Data Entry Operator & LDC Exam. 04.12.2011 (Ist Sitting (North Zone) 24. Select the correct combination of mathematical signs to replace signs and to balance the given equation. 8 52 72 4 $(1) = x + \div$ $(2) \times = + \div$ $(3) \times + = \div$ $(4) + \times = \div$ SSC (10+2) Level Data Entry Operator & LDC Exam. 04.12.2011 (IInd Sitting (North Zone) 25. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 15 * 3 * 5 * 20 * 2 $(1) + - = \div$ (2) $\times - = \times$ $(3) + = + \times$ (4) $\times - = \div$ SSC (10+2) Level Data Entry Operator

& LDC Exam. 04.12.2011

(Ist Sitting (East Zone)

26. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 2 * 3 * 2 * 4 * 8 (1) + - + =(2) × $(3) - + \times =$ (4) × SSC (10+2) Level Data Entry Operator & LDC Exam. 04.12.2011 (IInd Sitting (East Zone) 27. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 16 * 2 * 24 3 * 6 (1) + = $(2) \times - + =$ $(3) + \div = \div$ $(4) - - \div =$ SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (Ist Sitting (Delhi Zone) 28. Select the correct combination of mathematical signs to replace * signs and to balance the given equation 16 * 4 * 3 * 4 * 13 $(1) \div \times - =$ $(2) \times - + =$ $(3) + = \div \times$ $(4) - \times \div =$ SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (IInd Sitting (Delhi Zone) 29. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 6 * 15 * 10 * 3 * 12 $(1) \div + = \times$ $(2) + \div \times =$ $(3) \times \div + =$ $(4) + - = \div$ SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (Ist Sitting (East Zone) 30. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 18*6 * 3 * 12* 24 $(1) \div - = \times$ $(2) \times \div - =$ $(4) \times = \div +$ $(3) + \div \times =$ SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (IInd Sitting (East Zone) 31. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 16 * 4 * 64 * 4 (1) \times , <, \div (2) \times , >, \div $(3) \div$, >, × $(4) \times, >, +$

> (FCI Assistant Grade-II Exam. 22.01.2012 Paper-I)

- SYMBOLS & NOTATIONS

- signs and to balance the given equation : 28 * 4 * 9 * 16 $(1) \div + =$ $(2) + \div =$ $(4) - = \times$ $(3) - \times +$ FCI Assistant Grade-III Exam. 25.02.2012 (Paper-I) North Zone (Ist Sitting) 33. Select the correct combination of mathematical signs to replace* signs and to balance the given equation. 16 * 6 * 4 * 24 $(1) \div = \times$ $(2) \times = \div$ $(4) \times \div =$ $(3) = \div \div$ FCI Assistant Grade-III Exam. 05.02.2012 (Paper-I) East Zone (IInd Sitting) 34. Choose the appropriate combination of signs to solve. 16*8*1*8 $(1) = - \div$ $(2) - \div =$ (3) ÷ – = $(4) \div = -$ (SSC (10+2) Level Data Entry Operator & LDC Exam. 04.11.2012, Ist Sitting) 35. Select the correct combination of mathematical signs to replace * signs and to balance the following equation — 9*3*3*3*6 (1) $\div \times - =$ $(2) + - \times =$ (3) - + + = $(4) \times + - =$ (SSC Constable (GD) Exam. 12.05.2013 Ist Sitting) 36. Select the correct combination of mathematical signs to replace signs and to balance the given equation. 8 * 6 * 96 * 2 (1) \times + (2) × -(3) - x(4) ÷ – × (SSC Graduate Level Tier-I Exam. 19.05.2013, Ist Sitting) **37.** If 264 * 2 = 6, 870 * 3 = 11, then what should 735 * 5 be? (1) 05 (2) 12 (3) 16 (4) 03 (SSC Graduate Level Tier-I Exam. 19.05.2013, Ist Sitting) 38. Find the correct group of signs to solve the equation. 24 * 16 * 8 * 32 (1) + - = $(2) \div - =$ (3) - + = $(4) \times \div =$ (SSC Graduate Level Tier-I Exam. 19.05.2013, Ist Sitting)
- **39.** Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 15 * 24 * 3 * 6 * 17 $(1) - \div + =$ $(2) + \div - =$ $(3) + x = \div$ (4) - x = +(SSC Graduate Level Tier-I Exam. 19.05.2013, Ist Sitting) 40. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 5 * 5 * 5 * 3 * 10 $(1) \times + = \times$ $(2) + - \times =$ $(4) + \div \times =$ $(3) + \div = \times$ (SSC CAPFs SI & CISF ASI Exam. 23.06.2013) 41. Select the correct combination of mathematical signs to replace signs and to balance the following equation: 21 * 7 * 6 * 9 $(1) + \div =$ $(3) = + \div$ $(4) \div =$ (SSC Multi-Tasking (Non-Tech.) Staff Exam. 16.02.2014) 42. Select the correct combination of mathematical signs to replace * signs and to balance the following equation : * 4 * 12 * 12 (1) ÷ - = $(2) + - \div$ $(3) = - \div$ $(4) \times - =$ (SSC Multi-Tasking Staff (Patna) Exam. 16.02.2014) Select the correct combination of mathematical signs to replace * signs and to balance the following equation : 8 * 8 * 1 * 7 = 8 $(1) \times \div +$ $(2) + \div \times$ $(3) \div \times +$ $(4) + \times \div$ (SSC Multi-Tasking (Non-Tech.) Staff Exam. 23.02.2014, IInd Sitting) 44. Insert the arithmetic operations in the following numerical figures : 13 * 3 * 4 * 3 = 4 (1) ÷ × + (2) - × + (3) + \times ÷ $(4) + \div \times$ (SSC CGL Tier-I Re-Exam-2013, 27.04.2014) 45. Select the correct combination of mathematical signs to replace * signs and to balance the given equation. 2*4*3*4*9
- (1) $+ \times = -$ (2) $\times \div =$
- (3) $\times + =$ (4) $+ = \div$

(SSC CGL Tier-I Re-Exam-2013, 27.04.2014)

46. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

5 * 6 = 35, 8 * 4 = 28, 6 * 8 = ?

- (1) 46 (2) 34 (3) 23 (4) 38
- (SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)
- **47.** Select the correct combination of mathematical signs to replace * signs and to balance the following equation.

```
12 * 3 * 4 = 6 * 8 * 8
```

```
(1) +, ×, -, × (2) ×, +, -, ×
```

```
(3) ×, +, ×, - (4) ×, -, ×, +
(SSC CAPFs SI, CISF ASI & Delhi
Police SI Exam. 22.06.2014)
```

48. Select the correct combination of mathematical signs to replace * signs and to balance the follow-ing equation :

5*9*3*6*8

(1) \times + = \times (2) \times - = \times

 $(3) + \div - = (4) + \times \div =$

```
(SSC CAPFs SI, CISF ASI & Delhi
Police SI Exam. 22.06.2014)
```

49. Select the correct combination of mathematical signs to replace * signs and to balance the given equation

33 * 11 * 3 * 6 = 115

(1) + - × (2) × \div -

```
(3) \div \times - \qquad (4) - \times \div
```

(SSC GL Tier-I Re-Exam. (2013) 20.07.2014, Ist Sitting)

50. Select the correct combination of mathematical signs to replace * signs and to balance the given equation :

```
13 * 12 * 5 * 4
```

(1) = - + (2) = + -(3) + - = (4) - = +

(SSC GL Tier-I Re-Exam. (2013) 20.07.2014, IInd Sitting)

51. Some equations have been solved on the basis of a certain operation. Find the correct answer for the unsolved equation on that basis.

> If 73 * 17 = 45 and 68 * 40 = 54, then 83 * 15 = ?

32. Select the correct combination of

mathematical signs to replace *

52.

53.

54.

55.

56.

57.

- SYMBOLS & NOTATIONS

| | | | 1 | | |
|-----|---|-----|--|-----|---|
| 52. | (1) 49 (2) 64 (3) 69 (4) 79 (SSC GL Tier-I Exam. 19.10.2014) Select the correct combination of mathematical signs to replace * signs and to balance the following equation : | 58. | A*B means multiply A by B; A@B means divide A by B, A? B means add B to A and A=B means subtract B from A. Then find the value of 10*10 = 5*10 ? 50@10 (1) 100 (2) 45 (2) 1000 (4) 55 | | If, $1 * 2 = 1$, $2 * 3 = -1$ and 3 * 4 = -5, then find the value of 7 * 9 = ? (1) $- 47$ (2) $- 29$ (3) $- 2$ (4) $- 9$ (SSC CGL Tier-I (CBE) Exam. 03.09.2016) (Hird Sitting) |
| 53. | $(\sqrt{121} * 9) * 5 * 4 * 1$ (1) - + × = (2) + ÷ × = (3) = + × ÷ (4) - × + = (SSC GL Tier-I Exam. 19.10.2014) Select the correct combination of mathematical signs to replace the * signs and to balance the follow- ing equation : 45 * 3 * 6 * 2 * 16 | 59. | (3) 1000 (4) 55 (SSC CGL Tier-I (CBE)) Exam. 28.08.2016) (IInd Sitting) If 37 *14 = 17, 69 * 33 = 34, 91 * 125 = 72 then what should be 28 * 56 = ? (1) 26 (2) 42 (3) 34 (4) 28 | 66. | Some equations are solved on the basis of certain system. Find out the correct answer for the unsolved equation on that basis. If $3*2*8*4 = 632$, 2*4*4*4 = 816 then $3*3*5*1 = ?$ (1) 95 (2) 45 (3) 315 (4) 184 (SSC CGL Tier-I (CBE) |
| 54. | (1) + x ÷ = (2) + ÷ x = (3) + x - = (4) + + - = (SSC CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3) Select the correct combination of mathematical signs to replace * signs and to balance the follow- ing equation : 8 * 5 * 10 * 2 * 25 | | (SSC CGL Tier-I (CBE)) Exam. 28.08.2016) (IInd Sitting) If 5 * 3 = 19 and 8 * 5 = 49, then what should 6 * 4 be? (1) 24 (2) 28 (3) 18 (4) 16 (SSC CGL Tier-I (CBE)) Exam. 29.08.2016) (IInd Sitting) | 67. | Exam. 06.09.2016) (IIIrd Sitting) Some equations have been solved on the basis of a certain pattern. Find the correct answer for the unsolved equation on that basis : 7 * 4 * 3 = 437 8 * 6 * 4 = 648 4 * 3 * 6 = ? (1) 346 (2) 364 (3) 643 (4) 463 |
| 55. | (1) + x \div = (2) + \div - = (3) x + = x (4) x - = x (SSC CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3) Select the correct combination of mathematical signs to replace * signs and to balance the given | | Complete the third equation on the basis of a certain system fol- lowed in the first two equations. (1) $5 * 4 * 2 * 1 = 1425$ (2) $7 * 8 * 1 * 6 = 6817$ (3) $9 * 3 * 7 * 5 = ?$ (1) 3795 (2) 5397 | 68. | (SSC CGL Tier-I (CBE) Exam. 09.09.2016) (IInd Sitting) If 13 * 45 = 29, 24 * 58 = 41, 74 * 32 = 53, what should 97 * 47 be? (1) 73 (2) 72 (3) 63 (4) 64 |
| 56. | equation. 5 * 3 * 3 * 5 * 0 (1) $x \div - =$ (2) $+ - \div =$ (3) $ + =$ (4) $- x \div =$ (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, Ind Sitting TF No. 545 QP 6) If '+' means '-', '-' means 'x','x' | 62. | (3) 5973 (4) 5379 (SSC CGL Tier-I (CBE) Exam. 30.08.2016) (Ist Sitting) If 4 * 2 = 3 and 8 * 4 = 3, then 21 * 7 = ? (1) 4 (2) 3 (3) 8 (4) 16 (SSC CGL Tier-I (CBE) | 69. | (SSC CGL Tier-I (CBE) Exam. 04.09.2016) (IInd Sitting) Some equations have been solved on the basis of a certain pattern. Find the correct answer for the unsolved equation on that basis : 2 * 3 * 5 = 523 6 * 4 * 1 = 164 |
| 57. | means '+' and ' \div means '+', which combination will give you the val- ue of '0' in 42 * 4 * 12 * 20 * 9 ? (1) - \div × + (2) \div + - × (3) + - \div (4) × - \div + (SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783) Choose the appropriate combina- tion of signs to solve the equa- | | Exam. 07.09.2016) (Ist Sitting) If $3 * 4 = 10, 5 * 8 = 18, 7 * 7 = ?$ (1) 26 (2) 21 (3) 28 (4) 49 (SSC CGL Tier-I (CBE) Exam. 30.08.2016) (IInd Sitting) Select the correct combination of mathematical signs to replace * signs and to balance the equation. | 70. | 8 * 2 * 4 = 482, then 6 * 8 * 2 = ? (1) 826 (2) 268 (3) 286 (4) 628 (SSC CGL Tier-I (CBE) Exam. 10.09.2016) (IInd Sitting) Some equations are solved on the basis of a certain system. Find out the correct answer four the unsolved equation on that basis. |
| | tion. (16 + 18) * (21-11) * 32 * 8 (1) - x = (2) - = - $(3) + = - (4) \div - =$ (SSC CGL Tier-I Re- Exam, 30.08.2015) | | 48 * 4 * 6 * 3 * 30 (1) -, +, =, × (2) ÷, =, ×, + (3) ÷, +, ×, = (4) -, =, ×, + (SSC CGL Tier-I (CBE) Exam. 29.08.2016) (Ist Sitting) | | 9 * 8 = 63; 7 * 8 = 49, 5 * 6 = 25, 11 * 7 = ? (1) 77 (2) 70 (3) 66 (4) 121 (SSC Multi-Tasking Staff Exam. 30.04.2017 Ist Sitting) |

-| SYMBOLS & NOTATIONS |--

- **1.** After interchanging ÷ and +, 12 and 18, which one of the following equations becomes correct?
 - (1) $(90 \times 18) + 18 = 60$
 - $(2) (18 + 6) \div 12 = 2$
 - (3) $(72 \div 18) \times 18 = 72$
 - $(4) (12 + 6) \times 18 = 36$

(SSC Combined Graduate Level Tier-1 Exam. 16.05.2010 (Ist Sitting)

- **2.** After interchanging \div and =, 2 and 3 which one of the following statements becomes correct ?
 - (1) $15 = 2 \div 3(2) 5 \div 15 = 2$
 - (3) $2 = 15 \div 3(4) 3 = 2 \div 15$
- (SSC Combined Graduate Level Tier-1 Exam. 16.05.2010 (IInd Sitting)
- 3. Which of the following interchange of signs would make the given equation correct?
 - $(12 \div 6) + 3 \times 7 = 42$
 - (1) + and × (2) 6 and 7
 - (3) ÷ and + (4) 12 and 3 SSC (10+2) Level Data Entry Operator & LDC Exam.04.12.2011 (Ist Sitting (North Zone)
- 4. Which interchange of signs will make the following equation correct ?
 - $35 + 7 \times 5 \div 5 6 = 24$
 - (1) + and -(2) + and × (3) ÷ and +
 - (4) and + SSC (10+2) Level Data Entry Operator & LDC Exam. 04.12.2011 (IInd Sitting (North Zone)
- 5. Which of the following interchanges of signs would make the given equation correct?
 - $24 + 6 \times 3 \div 3 1 = 14$
 - (1) + and × (2) × and -
 - (4) and ÷
- (3) + and + SSC (10+2) Level Data Entry Operator & LDC Exam. 04.12.2011 (Ist Sitting (East Zone) 6. Which of the following inter-
- change of signs or figures would make the given equation correct?
 - $(5 + 2) \times 2 10 = 16$
 - (1) + and × (2) 5 and 10 (3) + and -(4) 5 and 2
 - SSC (10+2) Level Data Entry Operator & LDC Exam. 04.12.2011 (IInd Sitting (East Zone)
- 7. Which interchange of signs will make the following equation correct? $30 - 6 \div 4 + 2 \times 3 = 7$ (1) + and × (2) - and + (3) - and ÷ (4) + and -SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (Ist Sitting (Delhi Zone) 8. Which of the following interchanges of signs would make the given equation correct? $5 + 6 \div 3 - 12 \times 2 = 17$ (1) \div and \times (2) + and × (3) + and ÷ (4) + and -SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (IInd Sitting (Delhi Zone) 9. Which interchange of signs or numbers will make the following equation correct? $(7 + 2) \times 3 \times 4 - 1 = 20$ (1) 2 and 3 (2) × and – (3) 7 and 3 (4) + and × SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (Ist Sitting (East Zone) 10. Which interchange of signs will make the following equation correct? $(16 - 4) \times 6 \div 2 + 8 = 30$ (1) ÷ and – (2) 4 and 2 (3) - and + (4) 16 and 6 SSC (10+2) Level Data Entry Operator & LDC Exam. 11.12.2011 (IInd Sitting (East Zone) 11. Which one of the four interchanges in signs and numbers would make the given equation correct? $6 \times 4 + 2 = 16$ (1) + and ×, and 4 (2) + and ×, 2 and 4 (3) + and ×, 4 and 6 (4) None of these (SSC Assistant Grade-III Exam. 11.11.2012 (IInd Sitting) 12. Which of the following interchange of sign would make the
 - given equation correct? $(20 - 4) \times 4 + 16 = 36$ (1) + and -(2) 5 and 5
 - (3) 16 and 6 (4) ÷ and + (SSC Graduate Level Tier-I
 - Exam. 21.04.2013, Ist Sitting)

- 13. Which of the following interchange of signs would make the given equation correct?
 - $2 \times 3 + 6 12 \div 4 = 17$
 - (1) × and + (2) + and -
 - (3) + and +(4) - and ÷
 - (SSC Graduate Level Tier-I
 - Exam. 21.04.2013, Ind Sitting)

Directions (14 - 15) : In each of the following questions, which of the following interchange of signs would make the given equation correct?

(SSC Graduate Level Tier-I Exam. 21.04.2013, IInd Sitting) **14.** $10 + 10 \div 10 - 10 \times 10 = 10$ (1) + and -(2) + and ÷ (3) + and × (4) ÷ and + $(8 - 8) + 8 \times 32 = 64$ 15. $(1) \times + (2) -, \div, +$ (4) +, ÷, × $(3) +, \div, +$ 16. Which of the following interchanges of numbers would make the given equation correct? $8 \times 20 \div 3 + 9 - 5 = 38$ (1) 3, 9 (2) 3, 8 (3) 8, 9 (4) 3, 5 (SSC Graduate Level Tier-I Exam. 19.05.2013, 2nd Sitting) 17. Which of the following interchange of signs or numbers would make the given equation correct ? $(18 \div 9) + 3 \times 5 = 45$ $(1) \times \div$ $(2) + \div$ (4) 3 and 9 (3) 18 and 5 (SSC Cabinet Secretariat RO (ECO), DFO (T) & DFO (GD) Tier-I Exam. 23.06.2013) 18. Which of the following interchange of signs would make the equation correct? $8 \times 6 + 2 = 22$ (1) +, ×, 2 and 6 (2) +, ×, 2 and 8 (3) +, ×, 6 and 8 (4) +, ×, 2 and 22 (SSC GL Tier-I Exam. 19.10.2014, Ist Sitting) 19. Which of the following interchange of signs would make the given equation correct? $64 - 8 \times 9 \times 8 = 64$ (1) + and -(2) ÷ and ×

(3) + and ÷

(4) - and ×

(SSC GL Tier-I Exam. 19.10.2014)

| | | —∣ SYM | BOLS & | NOTAT | | |
|-------------------|---|--------------------------------------|--------------------------------------|------------------|--------------------------------------|------|
| 20 . After | interchanging \div and \times , 10 | | 6 + 8 × 2 | | | |
| | , which one of the following | | 8 × 2 + 7 | | | |
| becon | nes a correct equation ? | 1 | | | 16.08.2015 | |
| (1) (30 | 0 ÷ 5) × 10 = 24 | (0) | | | . 2176783) | |
| | 0 × 10) ÷ 5 = 60 | 27. Wh | ich of | the f | ollowing | |
| | 0 ÷ 10) × 5 = 18 | | | | ould make | |
| | 0 ÷ 30) × 5 = 70 | | equation | | - | |
| | SSC CHSL (10+2) DEO & LDC n. 02.11.2014, Patna Region : | | | 12 ÷ 4 = 3 | | |
| EXG | (Ist Sitting) | (1) | - and ÷ + and ÷ | | | |
| | h of the following inter- | | | | ier-I (CBE) | |
| | e of signs would make the | | | | (Ist Sitting) | |
| - | equation correct ?) + (4 × 7) = 29 | | | | | |
| (0 + 0 (1) + a | | | ANS | WERS | | |
| (3) × a | | | TVD | | | |
| | SSC CHSL (10+2) DEO & LDC | | ITPL | E-I (i) | | |
| | xam. 02.11.2014, IInd Sitting) ge the sign to find the equa- | 1. (2) | 2 . (2) | 3 . (3) | 4. (1) | |
| | 28 – 7 + 2 × 2 = 0 | 5. (4) | 6 . (3) | 7. (3) | 8. (2) | |
| (1) Cr | nange + into × | | | | | |
| | nange × into + | 9. (2) | 10 . (1) | 11. (2) | 12. (4) | ▶ L |
| | nange – into + | 13. (1) | 14. (2) | 15. (2) | 16. (2) | |
| | hange + into – SSC CHSL (10+2) DEO & LDC | 17. (3) | 18. (1) | 19. (1) | 20. (4) | |
| E | xam. 02.11.2014, IInd Sitting) | 21. (2) | 22. (1) | 23. (4) | 24. (3) | |
| | sign should be changed to the equation $5 + 6$, $3 - 12$ | | 26. (2) | 27. (2) | 28. (4) | |
| | 17 correct ? | 29. (3) | 30. (2) | 31 . (3) | 32 . (3) | |
| (1) + | (2) + × | 33. (1) | 34. (3) | 35 . (3) | 36. (4) | |
| (3) – | + (4) None of these SSC CHSL (10+2) DEO & LDC | | 38. (4) | 39 . (3) | 40 . (2) | |
| (- | Exam. 16.11.2014) | 41. (1) | 42. (3) | 43. (4) | 44. (*) | |
| | h of the following inter- | 45. (*) | 46 . (1) | 47. (2) | 48 . (4) | |
| - | je of signs would make the ion correct ? | 49. (*) | 50. (1) | 51 . (1) | 52. (3) | |
| • | + 2 = 16 | 53. (4) | 54 . (1) | 55. (3) | 56. (2) | |
| | and ×, 2 & 4 | 57. (4) | 58. (4) | 59 . (1) | 60 . (3) | |
| | and ×, 4 & 6 | 61. (2) | 62. (3) | 63. (2) | 64. (3) | |
| (3) + | and ×, 2 & 6 | 65 . (3) | 66 . (3) | 67 . (1) | 68 . (4) | |
| | and x, 3 & 4 | 69. (2) | 70 . (3) | 71. (*) | 72. (4) | |
| (SSC | CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3) | | 74. (2) | 75 . (3) | 76 . (3) | |
| | hange of signs and num- | 77. (2) | 78 . (3) | 79. (*) | 80. (4) | |
| | vould make the given equa- orrect. | 81 . (1) | 82. (1) | 83. (4) | 84. (3) | |
| | - 3 = 16 | 85. (3) | 86. (3) | 87. (*) | 88. (1) | |
| | and -, 2 and 3 | 89. (3) | 90. (4) | 91 . (3) | 92. (2) | |
| | and +, 3 and 2 | 93. (1) | 94. (3) | 95. (2) | 96. (1) | |
| | and -, 3 and 2 and -, 2 and 3 | 97. (4) | 98 . (1) | 99. (*) | 100. (1) | |
| | C CAPFs SI, CISF ASI & DP SI | 101 . (1) | 102 . (1) | 103 . (1) | 100. (1) | |
| E | xam, 21.06.2015, IInd Sitting) | 101 . (1) 105 . (1) | 102 . (1) 106 . (2) | 103. (1) | 104 . (4) 108 . (3) | |
| | nterchanging + and –, 8 and ich one of the following be- | | | | | |
| | s correct? | 109. (4) | 110 . (2) | 111. (2) | 112 . (2) | |
| (1) 8 - | - 7 + 3 × 5 = 35 | 113. (2) | 114 . (1) | 115. (*) | 116. (1) | |
| (2) 7 | | | | | | 1.1 |

(2) $7 \times 8 + 6 - 9 = 25$

| | (4) $8 \times 2 + 7 - 6 = 9$ | | | | | | |
|--|--|-----------------------|--------------------|------------------------------------|---------------|--|--|
| | (SSC CGL Tier-I Exam, 16.08.2015 | | | | | | |
| | (IInd Sitting) TF No. 2176783) 27. Which of the following | | | | | | |
| | | rchange o equation | | uld make | | | |
| | | | 12 ÷ 4 = 3 | 3 | 1. (| | |
| | | - and ÷ | (2) + ar | | 5. (| | |
| | (3) + and ÷ (4) + and – (SSC CGL Tier-I (CBE) | | | | | | |
| | 9. (13. (| | | | | | |
| | 17. (| | | | | | |
| | 21. (| | | | | | |
| | | Түре | -l (i) | | 25. (| | |
| | 1. (2) | 2 . (2) | 3 . (3) | 4. (1) | 29. (| | |
| | 5. (4) | 6 . (3) | 7. (3) | 8. (2) | 33. (| | |
| | 9. (2) | 10 . (1) | 11. (2) | 12. (4) | 37. (| | |
| | 13. (1) | 14. (2) | 15. (2) | 16. (2) | | | |
| | 17. (3) | 18 . (1) | 19. (1) | 20. (4) | | | |
| | 21 . (2) | 22. (1) | 23. (4) | 24 . (3) | 1. (| | |
| | 25. (1) | 26. (2) | 27 . (2) | 28. (4) | 5. (| | |
| | 29 . (3) | 30. (2) | 31 . (3) | 32 . (3) | 9. (| | |
| | 33. (1) | 34. (3) | 35. (3) | 36. (4) | - | | |
| | 37. (4) | 38. (4) | 39. (3) | 40. (2) | | | |
| | 41. (1) | 42 . (3) | 43 . (4) | 44. (*) | 1. (| | |
| | 45. (*) | 46 . (1) | 47. (2) | 48 . (4) | 5. (| | |
| | 49. (*) 53. (4) | 50 . (1) | 51 . (1) | 52 . (3) | 9. (| | |
| | 53 . (4) 57 . (4) | 54. (1) 58. (4) | 55. (3) 59. (1) | 56 . (2) 60 . (3) | | | |
| | 61 . (2) | 62 . (3) | 63 . (2) | 64. (3) | | | |
| | 65 . (3) | 66. (3) | 67. (1) | 68. (4) | | | |
| | 69 . (2) | 70 . (3) | 71. (*) | 72. (4) | 1. (5. (| | |
| | 73. (1) | 74. (2) | 75. (3) | 76. (3) | 9. (| | |
| | 77. (2) | 78 . (3) | 79. (*) | 80. (4) | | | |
| | 81 . (1) | 82 . (1) | 83. (4) | 84 . (3) | [| | |
| | 85. (3) | 86. (3) | 87. (*) | 88. (1) | | | |
| | 89. (3) | 90. (4) | 91 . (3) | 92 . (2) | 1. (| | |
| | 93. (1) | 94 . (3) | 95. (2) | 96. (1) | 5. (| | |
| | 97. (4) | 98 . (1) | 99. (*) | 100 . (1) | 9. (13. (| | |
| | 101 . (1) | 102 . (1) | 103 . (1) | 104. (4) | 17. (| | |
| | 105 . (1) | 106. (2) | 107. (4) | 108. (3) | 21. (| | |
| | 109. (4) | 110 . (2) | 111. (2) | 112 . (2) | 25. (| | |
| | 113. (2) | 114 . (1) | 115. (*) | 116. (1) | 29. (| | |
| | 117. (2) | 118 . (1) | | | 33. (| | |
| | | | | | | | |

| TYPE-I (ii) | | | | | |
|----------------|-----------------|-----------------|-----------------|--|--|
| 1. (2) | | | | | |
| | TYPE | -l (iii) | | | |
| 1. (2) | 2 . (4) | 3 . (3) | 4. (4) | | |
| 5. (2) | 6 . (2) | 7. (4) | 8 . (3) | | |
| 9. (2) | 10. (2) | 11. (1) | 12 . (2) | | |
| 13. (2) | 14. (3) | 15 . (3) | 16 . (3) | | |
| 17. (1) | 18. (1) | 19 . (3) | 20 . (*) | | |
| 21. (*) | 22. (3) | 23 . (2) | 24 . (3) | | |
| 25. (*) | 26. (2) | 27 . (3) | 28 . (2) | | |
| 29. (2) | 30 . (3) | 31 . (2) | 32. (2) | | |
| 33. (4) | 34 . (2) | 35 . (2) | 36. (4) | | |
| 37. (1) | 38. (1) | 39 . (1) | | | |
| TYPE-I (iv) | | | | | |
| 1. (2) | 2 . (4) | 3 . (1) | 4. (4) | | |
| 5. (*) | 6 . (4) | 7. (1) | 8. (*) | | |
| 9. (4) | | | | | |
| | TYPE | -l (v) | | | |
| 1 . (1) | 2 . (2) | 3 . (1) | 4. (3) | | |
| 5. (1) | 6 . (3) | 7. (3) | 8. (2) | | |
| 9. (4) | 10 . (4) | 11 . (1) | | | |
| TYPE-I (vi) | | | | | |
| 1. (4) | 2 . (4) | 3 . (3) | 4. (*) | | |
| 5. (3) | 6 . (1) | 7. (2) | 8. (4) | | |
| 9. (4) | 10. (2) | 11 . (1) | 12 . (3) | | |
| TYPE-I (vii) | | | | | |

| 1. (2) | 2. (2) | 3. (1) | 4. (2) |
|-----------------|-----------------|-----------------|-----------------|
| 5. (1) | 6. (2) | 7. (2) | 8 . (3) |
| 9. (2) | 10 . (4) | 11. (2) | 12 . (2) |
| 13. (2) | 14. (4) | 15 . (1) | 16 . (1) |
| 17. (3) | 18 . (1) | 19. (2) | 20 . (2) |
| 21 . (2) | 22. (4) | 23. (4) | 24 . (3) |
| 25. (2) | 26 . (1) | 27. (4) | 28. (4) |
| 29 . (1) | 30 . (2) | 31 . (2) | 32 . (3) |
| 33. (3) | 34. (4) | 35. (3) | 36 . (2) |
| | | | |

SYMBOLS & NOTATIONS |-

| 37. (2) | 38. (1) | 39. (4) | 40. (2) |
|-----------------|-----------------|-----------------|-----------------|
| 41 . (2) | 42 . (4) | 43 . (1) | 44. (4) |
| 45. (1) | 46. (1) | 47 . (3) | 48. (2) |
| 49 . (2) | 50. (2) | 51 . (3) | 52. (4) |
| 53 . (2) | 54 . (1) | 55 . (3) | 56. (2) |
| 57. (2) | 58. (2) | | |

TYPE-II

| 1. (1) | 2. (*) | 3 . (1) | 4 . (1) | | |
|-----------------|-----------------|-----------------------|-----------------|--|--|
| 5. (1) | 6. (4) | 7. (1) | 8. (4) | | |
| 9 . (3) | 10. (3) | 11 . (3) | 12. (1) | | |
| 13. (4) | 14. (4) | 15. (2) | 16. (3) | | |
| 17. (4) | 18. (4) | 19 . (3) | 20 . (2) | | |
| 21. (4) | 22. (4) | 23 . (2) | 24 . (4) | | |
| 25. (2) | 26. (2) | 27 . (4) | 28. (4) | | |
| 29. (3) | 30. (2) | 31 . (2) | 32. (1) | | |
| 33. (4) | 34. (2) | 35. (1) | 36. (2) | | |
| 37. (2) | 38. (1) | 39. (2) | 40 . (1) | | |
| 41. (2) | 42 . (4) | 43 . (3) | 44. (2) | | |
| 45. (3) | 46. (1) | 47 . (3) | 48. (1) | | |
| 49. (2) | 50. (2) | 51 . (1) | 52. (*) | | |
| 53. (2) | 54. (3) | 55. (1) | 56. (*) | | |
| 57 . (2) | 58. (4) | 59. (4) | 60. (2) | | |
| 61. (4) | 62. (1) | <mark>63. (</mark> 2) | 64. (3) | | |
| 65. (1) | 66. (1) | 67. (2) | 68. (2) | | |
| 69. (2) | 70. (3) | | | | |
| | | | | | |

| TYPE-III | | | | |
|-----------------|--|---|--|--|
| 2. (2) | 3. (3) | 4. (3) | | |
| 6. (3) | 7. (3) | 8 . (1) | | |
| 10 . (1) | 11. (3) | 12 . (4) | | |
| 14. (3) | 15. (4) | 16 . (4) | | |
| 18. (3) | 19 . (3) | 20 . (2) | | |
| 22 . (1) | 23. (*) | 24 . (2) | | |
| 26. (3) | 27. (1) | | | |
| | 2. (2) 6. (3) 10. (1) 14. (3) 18. (3) 22. (1) | 2. (2) 3. (3) 6. (3) 7. (3) 10. (1) 11. (3) 14. (3) 15. (4) 18. (3) 19. (3) 22. (1) 23. (*) | | |

둘 EXPLANATIONS 🕷 TYPE-I (i) $+ \rightarrow \div; \div \rightarrow \times$ 1. (2) $\times \rightarrow -: - \rightarrow +$ Option (1) $18 \div 6 - 7 + 5 \times 2 = 20$ After conversion $18 \times 6 + 7 \div 5 - 2 = 20$ or, $108 + \frac{7}{5} - 2 \neq 20$ Option (2) $18 + 6 \div 7 \times 5 - 2 = 18$ After conversion $18 \div 6 \times 7 - 5 + 2 = 18$ or, 3 × 7 – 5 + 2 = 18 or, 21 - 5 + 2 = 18 or, 23 - 5 = 18 or, 18 = 18 **2**. (2) $-\rightarrow \div$ Option (1) 18 ÷ 3 × 2 + 8 – 6 = 10 After conversion 18 - 3 + 2 × 8 ÷ 6 = 10 or, $18 - 3 + 2 \times \frac{8}{6} = 10$ or, $18-3+\frac{8}{2} \neq 10$ Option (2) $18 - 3 + 2 \times 8 \div 6 = 14$ After conversion $18 \div 3 \times 2 + 8 - 6 = 14$ or, $6 \times 2 + 8 - 6 = 14$ or, 12 + 8 - 6 = 14 **3**. (3) $+ \Rightarrow \times; \times \Rightarrow \div \Rightarrow +; - \Rightarrow \div$ Given expression $175 - 25 \div 5 + 20 \times 3 + 10 =?$ After conversion ? = 175 ÷ 25 + 5 × 20 - 3 × 10 or, ? = 7 + 100 - 30 = 77 4. (1) $- \Rightarrow \div; + \Rightarrow \times$

 $\div \Rightarrow -; \times \Rightarrow +$

Option (1) Given expression $6 \div 20 \times 12 + 7 - 1 = 70$ After conversion $6 - 20 + 12 \times 7 \div 1 = 70$ or, 6 - 20 + 84 = 70 or, 90 - 20 = 70 or, 70 = 70 \Rightarrow 5. (4) **Given expression** $2 \div 6 \times 6 \div 2 = ?$ After changing the signs $? = 2 + 6 \div 6 + 2$ or, ? = 2 + 1 + 2 = 56. (3) $+ \Rightarrow \times \times \Rightarrow \div$ - ⇒ + | ÷ ⇒ -Given expression $20 - 8 \times 4 \div 3 + 2 = ?$ After conversion $? = 20 + 8 \div 4 - 3 \times 2$ or, ? = 20 + 2 - 6or, ? = 22 - 6 = 16 7. (3) 🔽 – ÷ + ×÷ + Given expression $16 \times 8 \div 4 - 3 + 9 = ?$ After conversion $? = 16 - 8 + 4 \div 3 \times 9$ or, ? = $16 - 8 + \frac{4}{2} \times 9$ or, ? = 16 - 8 + 12 = 20 8. (2) $+ \Rightarrow - - \Rightarrow \times$ $\Rightarrow + | \times \Rightarrow +$ Given expression $15 - 3 + 10 \times 5 \div 5 = ?$ After conversion $? = 15 \times 3 - 10 \div 5 + 5$ or, ? = 45 - 2 + 5 or, ? = 50 - 2 = 489. (2) $- \Rightarrow \div \Rightarrow \times$ +⇒ $x \Rightarrow +$ Option (1) $20 + 8 - 7 \div 6 \times 4 = 20$ or, $20 - 8 \div 7 \times 6 + 4 = 20$

or, $20 - \frac{8}{7} \times 6 + 4 \neq 20$

SYMBOLS & NOTATIONS

Option (2) $20 - 5 \div 4 + 6 \times 5 = 15$ or, $20 \div 5 \times 4 - 6 + 5 = 15$ or, $4 \times 4 - 6 + 5 = 15$ or, 16 - 6 + 5 = 15 **10.** (1) $\times \Rightarrow + \div \Rightarrow -$? = 39 × 23 ÷ 21 × 5 or, ? = 39 + 23 - 21 + 5 or, ? = 67 - 21 = 46 $+ \Rightarrow \div | \div \Rightarrow \times$ 11. (2) $\times \Rightarrow - \rightarrow +$ Option (1) $18 \div 6 - 7 + 5 \times 2 = 20$ or, $18 \times 6 + 7 \div 5 - 2 = 20$ or, $108 + \frac{7}{5} - 2 = 20$ or, $\frac{540+7-10}{5} = 20$ or, 547 - $10 \neq 20 \times 5$ Option (2) $18 + 6 \div 7 \times 5 - 2 = 18$ or, $18 \div 6 \times 7 - 5 + 2 = 18$ or, $3 \times 7 - 5 + 2 = 18$ or, 21-5+2=18 12. (4) $+ \Rightarrow \div | \times \Rightarrow +$ $\Rightarrow \Rightarrow \rightarrow \Rightarrow \times$ $36 - 6 + 3 \times 5 \div 3 = 74$ or, $36 \times 6 \div 3 + 5 - 3 = 74$ or, $36 \times 2 + 5 - 3 = 74$ or, 72 + 5 - 3 = 74**13**. (1) $+ \Rightarrow \div \Rightarrow +$ 10 × 5 ÷ 3 or, ? = 10 ÷ $3 \times 2 - 3$ 14. (2) ÷ \Rightarrow × +× $63 \times 24 + 8 \div 4 + 2 - 3 = ?$ or, $? = 63 - 24 \div 8 + 4 \div 2 \times 3$ or, $? = 63 - 3 + 2 \times 3$ or, ? = 63 - 3 + 6or, ? = 66 **15.** (2) $(16 - 4) \times 6 \div 2 + 8 = 30$ \Rightarrow (16 ÷ 4) × 6 – 2 + 8 = 30 \Rightarrow 4 × 6 - 2 + 8 = 30 \Rightarrow 24 - 2 + 8 = 30

16. (2) $- \Rightarrow \div | + \Rightarrow \div \Rightarrow \times$ $\times \Longrightarrow -$ Option (1) $70 - 2 + 4 \div 5 \times 6 = 44$ \Rightarrow 70 ÷ 2 – 4 × 5 + 6 = 44 \Rightarrow 35 - 20 + 6 = 44 Option (2) $70 - 2 + 4 \div 5 \times 6 = 21$ $70 \div 2 - 4 \times 5 + 6 = 21$ \Rightarrow 35 - 20 + 6 = 21 ⇒ 41 - 20 = 21 $|-\Rightarrow \div |+\Rightarrow \times$ **17**. (3) $\Rightarrow \Rightarrow - | \times \Rightarrow +$ Option (1) $19 + 5 - 4 \times 2 \div 4 = 11$ \Rightarrow 19 × 5 ÷ 4 + 2 - 4 = 11 $\Rightarrow \frac{95}{4} + 2 - 4 \neq 11$ Option (2) $19 \times 5 - 4 \div 2 + 4 =$ \Rightarrow 19 + 5 ÷ 4 - 2 × 4 = 16 5 4 - 8 ≠ ⇒19 + Option (3) $19 \div 5 + 4 - 2 \times 4 = 13$ \Rightarrow 19 - 5 × 4 ÷ 2 + 4 = 13 ⇒ **19 – 5 × 2 + 4 = 1**3 ⇒ 19 – 10 + 4 = 13 **18**. (1) $\times \rightarrow +$ Option (1) $30 - 6 + 5 \times 4 \div 2 = 27$ \Rightarrow 30 ÷ 6 × 5 + 4 - 2 = 27 \Rightarrow 5 × 5 + 4 - 2 = 27 \Rightarrow 25 + 4 - 2 = 27 Option (2) $30 + 6 - 5 \div 4 \times 2 = 30$ \Rightarrow 30 × 6 ÷ 5 - 4 + 2 = 30 \Rightarrow 36 - 4 + 2 \neq 30 Option (3) $30 \times 6 \div 5 - 4 + 2 = 32$ \Rightarrow 30 + 6 - 5 ÷ 4 × 2 \neq 32 $x \Rightarrow + - \Rightarrow \div$ **19**. (1) $+ \Rightarrow x$ Option (1) $16 + 5 - 10 \times 4 \div 3 = 9$ \Rightarrow 16 × 5 ÷ 10 + 4 - 3 = 9 \Rightarrow 8 + 4 - 3 = 9 **20**. (4) $- \Rightarrow \div$ $+ \Rightarrow \times$ ÷⇒− $\times \Rightarrow +$ Option (1) $24 \div 8 - 4 + 2 \times 3 = 16$

After conversion $24 - 8 \div 4 \times 2 + 3 = 16$ or, $24 - 2 \times 2 + 3 = 16$ or, 24 - 4 + 3 = 16 or, 27 - 4 = 16 or, 23 ≠ 16 Option (2) $24 - 8 + 4 \times 2 \div 3$ After conversion $24 \div 8 \times 4 + 2 - 3$ or, 3 × 4 + 2 - 3 or, 12 + 2 - 3 = or, 11 ≠ 12 Option (3) $24 \times 8 - 4 \div 2 + 3 = 17$ After conversion $24 + 8 \div 4 - 2 \times 3 = 17$ or, 24 + 2 - 6 = 17 or, 26 - 6 = 17 or, 20 ≠ 17 Option (4) $24 + 8 - 4 \times 2 \div 3 = 47$ After conversion or, $24 \times 8 \div 4 + 2 - 3 = 47$ or, 24 × 2 + 2 - 3= 47 or, 48 + 2 - 3 = 47 or, 50 - 3 = 47or, 47 = 47 **21.** (2) $| \div \rightarrow + | \times \rightarrow -$ Given expression $(15 \times 9) \div (12 \times 4) \times (4 \div 4) = ?$ After changing the sign, ? = (15 - 9) + (12 - 4) - (4 + 4)or, ? = (6) + (8) - (8)or, ? = 6 + 8 - 8 = 6⇒ - $- \Rightarrow \times$ 22. (1) \Rightarrow + $\times \Rightarrow \div$ Given expression $15 \times 3 \div 4 - 6 + 7 = ?$ After conversion $? = 15 \div 3 + 4 \times 6 - 7$ or, ? = 5 + 24 - 7or, ? = 29 - 7 = 22 **23**. (4) $\times \Rightarrow - + \Rightarrow +$ $+ \Rightarrow \times$ **Given expression** $(16 \times 5) \div 5 + 3 = ?$ After conversion $? = (16 - 5) + 5 \times 3$ or, $? = 11 + 5 \times 3$ or, ? = 11 + 15 = 26 **24**. (3) $\div \rightarrow +$ $\rightarrow \times$ $\times \rightarrow + \rightarrow \div$

Option (1) $10 \times 4 = 06 \implies 10 - 4 = 06$ Option (2) $10 - 4 = 40 \implies 10 \times 4 = 40$ Option (3) $10 + 5 = 50 \implies 10 \div 5 = 2$ and $2 \neq 50$ Option (4) $10 \div 5 = 15 \implies 10 + 5 = 15$ **25**. (1) $\times \rightarrow +$ $\div \rightarrow \rightarrow \times$ $+ \rightarrow \div$ Given expression $54 \div 16 - 3 \times 6 + 2 = ?$ After conversion $? = 54 - 16 \times 3 + 6 \div 2$ or, ? = 54 - 48 + 3 = **9 26**. (2) $|+ \Rightarrow - | \div \Rightarrow +$ $- \Rightarrow \times$ $\times \Rightarrow \div$ Option (1) $56 + 12 \times 34 - 12 = 102$ After changing the signs $56 - 12 \div 34 \times 12 = 102$ or, 56 - $\frac{12}{34} \times 12 = 102$ or, 56 - $\frac{144}{34} \times 12 \neq 102$ Option (2) $8 \div 44 - 5 + 25 = 203$ After changing the signs 8 + 44 × 5 - 25 = 203 or, 8 + 220 - 25 = 203 or, 228 - 25 = 203 or, 203 = 203 Option (3) 112 × 44 - 12 + 10 = 46 After changing the signs $112 \div 44 \times 12 - 10 = 46$ or, $\frac{112}{44} \times 12 - 10 = 46$ or, $\frac{28}{11} \times 12 - 10 = 46$ or, $\frac{336}{11} - 10 = 46$ or, $\frac{336-110}{11} = 46$ or, 226 = 46 × 11 or, 226 ≠ 506

Option (4)

 $9 \div 64 - 2 \times 6 = 54$

SYMBOLS & NOTATIONS

After changing the signs $9 + 64 \times 2 \div 6 = 54$ or, 9 + 64 $\times \frac{2}{6} = 54$ or, 9 + $\frac{64}{2}$ = 54 or, 27 + 64 = 54 × 3 or, 91 ≠ 162 **27**. (2) $- \Rightarrow \div + \Rightarrow \times$ $\Rightarrow \Rightarrow - | \times \Rightarrow +$ Option (1) $30 + 5 - 12 \div 8 \times 12 = 70$ After changing the signs $30 \times 5 \div 12 \div 8 + 12 = 70$ or, $30 \times \frac{5}{12} - 8 + 12 = 70$ or, $\frac{25}{2} - 8 + 12 = 70$ or, 25 - 16 + 24 = 70 × 2 or, 33 ≠ 140 Option (2) 30 - 5 + 12 - 8 × 12 = 76 After changing the signs 30 ÷ 5 + 12 ÷ 8 + 12 = 76 or, 6 × 12 – 8 + 12 = 76 or, 72 - 8 + 12 = 76 or, 84 - 8 = 76 or, 76 = 76 Option (3) $30 \times 5 - 12 + 8 \div 12 = 60$ After changing the signs $30 + 5 \div 12 \times 8 - 12 = 60$ or, $30 + \frac{5}{12} \times 8 - 12 = 60$ or, $30 + \frac{5}{3} \times 2 - 12 = 60$ or, $30 + \frac{10}{3} - 12 = 60$ or, $90 + 10 - 36 = 60 \times 3$ or, 64 ≠180 Option (4) $30 \div 5 \times 12 + 8 - 12 = 24$ After changing the signs $30 - 5 + 12 \times 8 \div 12 = 24$ or, $30 - 5 + 12 \times \frac{8}{12} = 24$ or, 30 - 5 + 8 = 24 or, 33 ≠ 24 **28**. (4) +⇒× ×⇒÷ $- \Rightarrow + | \div \Rightarrow -$

Given expression $20 - 5 \div 18 \times (3 + 2) = ?$ After changing the signs $? = 20 + 5 - 18 \div (3 \times 2)$ or, ? = 20 + 5 - 18 ÷ 6 or, ? = 20 + 5 - 3or, ? = 25 - 3 = 22 **29**. (3) $\times \Rightarrow -+$ Given expression $6 + (3 \times 1) + 5 = 7$ After changing the signs $? = 6 \times (3 - 1) \times 5$ or, $? = 6 \times 2 \times 5 = 60$ **30.** (2) $+ \Rightarrow \div \Rightarrow - \Rightarrow \times \times$ Give expression $12 + 6 \div 3 - 2 \times 8 = ?$ After changing the signs $? = 12 \div 6 - 3 \times 2 + 8$ or, ? = 2 - 6 + 8or, ? = 10 - 6 = 4**31**. (3) Give expression $26 + 74 - 4 \times 5 \div 2 = ?$ After changing the signs $? = 26 \times 74 \div 4 - 5 + 2$? = 481 - 5 + 2 or, ? = 483 - 5 = 478 **32.** (3) $+ \Rightarrow - \div \Rightarrow +$ $- \Rightarrow \times \times \Rightarrow \div$ Option (1) $46 - 10 + 10 \times 5 = 92$ or, $46 \times 10 - 10 \div 5 = 92$ or, $460 - 2 \neq 92$ Option (2) $265 + 11 - 2 \times 14 = 22$ or, 265 - 11 × 2 ÷ 14 = 22 or, $265 - \frac{22}{14} \neq 22$ Option (3) $66 \times 3 - 11 + 12 = 230$ or, $66 \div 3 \times 11 - 12 = 230$ or, 22 × 11 - 12 = 230 or, 242 - 12 = 230 **33**. (1) $+ \Rightarrow - \Rightarrow = = \Rightarrow +$ ÷⇒> $\times \Rightarrow <$ 8 + 4 - ? \Rightarrow 8 – 4 = ? ∴ ? = 4

34. (3)

- SYMBOLS & NOTATIONS

 $- \Rightarrow + + \Rightarrow$ $x \Rightarrow \div | \div \Rightarrow x$ $? = 7 - 10 \times 5 \div 6 + 4$ \Rightarrow ? = 7 + 10 ÷ 5 × 6 - 4 \Rightarrow ? = 7 + 2 × 6 - 4 \Rightarrow ? = 7 + 12 - 4 = 15 **35.** (3) $\boxed{\div \Rightarrow \times |-\Rightarrow} +$ $\times \Rightarrow - + \Rightarrow \div$ $? = 20 + 4 \times 6 - 5 \div 7$ \Rightarrow ? = 20 ÷ 4 – 6 + 5 × 7 \Rightarrow ? = 5 - 6 + 35 = 34 **36.** (4) $|+\Rightarrow \times |-\Rightarrow +$ $\times \Rightarrow \div$ $\div \Rightarrow 10 + 5 \times 10 \div 2 - 5$ \Rightarrow ? = 10 × 5 ÷ 10 - 2 + 5 \Rightarrow ? = 5 - 2 + 5 = 8 37. (4) Option (1) $10 \div 5 + 4 = 6$ \Rightarrow 10 × 5 ÷ 4 = 6 $\Rightarrow \frac{10 \times 5}{4} \neq 6$ Option (2) 10 - 4 + 2 = 6 \Rightarrow 10 - 4 ÷ 2 = 6 \Rightarrow 10 - 2 \neq 6 Option (3) 10 + 2 - 5 = 6 \Rightarrow 10 ÷ 2 – 5 \neq 6 Option (4) $10 + 2 \times 1 = 6$ \Rightarrow 10 ÷ 2 + 1 = 6 \Rightarrow 5 + 1 = 6 **38**. (4) **Option (1)** $36 \times 6 + 7 \div 2 - 6 = 20$ $\Rightarrow 36 + 6 \div 7 - 2 \times 6 = 20$ \Rightarrow 36 + $\frac{6}{7}$ - 12 \neq 20 Option (2) 36 ÷ 6 + 3 × 5 - 3 = 45 \Rightarrow 36 - 6 ÷ 3 + 5 × 3 = 45 \Rightarrow 36 - 2 + 15 \neq 45 Option (3) $36 + 6 - 3 \times 5 \div 3 = 24$ \Rightarrow 36 ÷ 6 × 3 + 5 - 3 = 25 \Rightarrow 6 × 3 + 5 - 3 = 24 \Rightarrow 18 + 5 - 3 \neq 24 Option (4) $36 - 6 + 3 \times 5 \div 3 = 74$

 \Rightarrow 36 × 6 ÷ 3 + 5 - 3 = 74

 \Rightarrow 72 + 5 - 3 = 74

39. (3) Option (1) $18 + 14 - 24 \times 12 \div 16 = 12$ \Rightarrow 18 × 14 ÷ 24 + 12 - 16 = 12 $\Rightarrow \frac{18 \times 14}{24} + 12 - 16 = 12$ $\Rightarrow \frac{21}{2} + 12 - 16 \neq 12$ Option (2) $16 \times 14 - 24 \div 18 + 12 = -24$ \Rightarrow 16 + 14 ÷ 24 - 18 × 12 = - 24 \Rightarrow 16 + $\frac{14}{24}$ - 18 × 12 \neq -24 Option (3) $24 - 12 + 12 \div 16 \times 18 = 26$ $\Rightarrow 24 \div 12 \times 12 - 16 + 18 = 26$ \Rightarrow 24 - 16 × 18 = 26 **40**. (2) $\times \Rightarrow$ $+ \Rightarrow \div$ ÷ \Rightarrow ? = (15 - 10) ÷ (130 + 10) × 50 \Rightarrow ? = (15 × 10) + (130 ÷ 10) – 50 ⇒? = (150) + (13) - 50 ⇒? = 163 - 50 = 113 41. (1) $36 \times 12 + 4 \div 6 + 2 - 3 = ?$ \Rightarrow ? = 36 - 12 ÷ 4 + 6 ÷ 2 × 3 \Rightarrow ? = 36 - 3 + 9 \Rightarrow ? = 45 - 3 = 42 **42**. (3) $T \Rightarrow \times | U \Rightarrow V \Rightarrow \div | W \Rightarrow +$ (50 V 2) W (28 T 4) \Rightarrow (50 ÷ 2) + (28 × 4) \Rightarrow 25 + 112 = 137 43. (4) $- \Rightarrow \div | + \Rightarrow \times$ $\div \Rightarrow - | \times \Rightarrow +$ Option (1) $49 \times 7 + 3 \div 5 - 8 = 16$ $\Rightarrow 49 + 7 \times 3 - 5 \div 8 = 16$ \Rightarrow 49 + 21 - $\frac{5}{8}$ = 16 \Rightarrow 392 + 168 - 5 \neq 128 Option (2) $49 \div 7 \times 3 + 5 - 8 = 26$

 \Rightarrow 49 - 7 + 3 × 5 ÷ 8 = 26 \Rightarrow 49 - 7 + $\frac{15}{8}$ = 26 \Rightarrow 392 - 56 + 15 = 208 ⇒ 351 ≠ 208 Option (3) $49 + 7 - 3 \times 5 \div 8 = 20$ \Rightarrow 49 × 7 ÷ 3 + 5 - 8 = 20 $\Rightarrow \frac{49 \times 7}{3} + 5 - 8 \neq 20$ Option (4) $49 - 7 + 3 \div 5 \times 8 = 24$ $\Rightarrow 49 \div 7 \times 3 - 5 + 8 = 24$ $7 \times 3 - 5 + 8 = 24$ 21 - 5 + 8 = 24 $+ \Rightarrow \times |- \Rightarrow \div$ $\times \Rightarrow + | \div \Rightarrow 25 \times 5 - 3 \div 2 + 5 = ?$ \Rightarrow ? = 25 + 5 ÷ 3 - 2 × 5 \Rightarrow ? = 25 + $\frac{5}{3}$ - 10 \Rightarrow ? = $\frac{75+5-30}{3} = \frac{80-30}{3}$ $=\frac{50}{3}=16\frac{2}{3}$ $\mathbf{45.} (\mathbf{*}) \boxed{- \Rightarrow +} | + \Rightarrow \times$ $\Rightarrow \Rightarrow - | \times \Rightarrow \Rightarrow$ Option (1) $5 - 2 + 12 \times 6 \div 2 = 27$ \Rightarrow 5 + 2 × 12 ÷ 6 - 2 = 27 \Rightarrow 5 + 2 × 2 - 2 = 27 \Rightarrow 5 + 4 - 2 \neq 27 Option (2) $5 + 2 - 12 \div 6 \times 2 = 13$ \Rightarrow 5 × 2 + 12 - 6 ÷ 2 = 13 \Rightarrow 10 + 12 - 3 = 13 \Rightarrow 19 \neq 13 Option (3) $5 + 2 - 12 \times 6 \div 2 = 10$ \Rightarrow 5 × 2 + 12 ÷ 6 - 2 = 10 \Rightarrow 10 + 2 - 2 = 10 Option (4) $5 \div 2 + 12 \times 6 - 2 = 3$ \Rightarrow 5 - 2 × 12 ÷ 6 + 2 = 3 \Rightarrow 5 - 2 × 2 + 2 = 3 \Rightarrow 5 – 4 + 2 = 3 Options (1) and (2) are wrong.

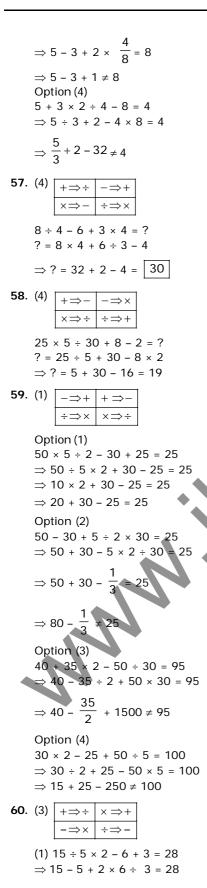
46. (1) $\boxed{\times \Rightarrow} - | + \Rightarrow \times$ $\Rightarrow \Rightarrow +$ - ⇒ ÷ $175 - 25 \div 5 + 20 \times 3 + 10 = ?$ \Rightarrow ? = 175 ÷ 25 + 5 × 20 - 3 × 10 \Rightarrow ? = 7 + 100 - 30 = 77 $- \Rightarrow \times$ $\times \Rightarrow +$ $8 + 2 \div 3 - 4 \times 6 = ?$ \Rightarrow ? = 8 ÷ 2 - 3 × 4 + 6 \Rightarrow ? = 4 - 12 + 6 = - 2 $\times \Rightarrow + + \Rightarrow \div$ $20 \times 60 \div 40 - 20 + 10 = ?$ \Rightarrow ? = 20 + 60 - 40 × 20 ÷ 10 \Rightarrow ? = 20 + 60 - 40 × 2 \Rightarrow ? = 80 - 80 = 0 49. (*) $+ \Rightarrow \div | \times \Rightarrow +$ $- \Rightarrow \times$ $\div \Rightarrow -$ Option (1) 36 × 6 + 3 - 2 < 20 \Rightarrow 36 + 6 ÷ 3 × 2 < 20 \Rightarrow 36 + 2 × 2 \lt 20 Option (2) 36 × 6 + 3 × 2 > 20 \Rightarrow 36 + 6 ÷ 3 + 2 > 20 \Rightarrow 36 + 2 + 2 > 20 Option (3) $36 + 6 \times 3 + 2 = 20$ \Rightarrow 36 ÷ 6 + 3 ÷ 2 = 20 $\Rightarrow 6 + \frac{3}{2} \neq 20$ Option (4) $36 + 6 - 3 \times 2 =$ 2 = 20 \Rightarrow 36 \div 6 \times 3 + $\Rightarrow 6 \times 3 +$ ⇒ 18 + 2 = 20 Both the Options (2) and (4) are correct. **50**. (1) $- \Rightarrow + |$ $\div \Rightarrow \times$ $\times \Rightarrow + \Rightarrow \div$ Option (1) $25 - 15 + 5 \div 4 \times 16 = 21$ \Rightarrow 25 + 15 ÷ 5 × 4 – 16 = 21 \Rightarrow 25 + 3 × 4 - 16 = 21 ⇒ 25 + 12 - 16 = 21 ⇒ 37 - 16 = 21

Option (2)

 $25 + 11 + 4 \div 10 \times 6 = 20$

\Rightarrow 25 ÷ 11 + 4 × 10 - 6 = 20 $\Rightarrow \frac{25}{11} + 40 - 6 \neq 20$ Option (3) $25 \times 12 - 14 \div 4 + 6 = 16$ \Rightarrow 25 - 12 + 14 × 4 ÷ 6 = 16 $\Rightarrow 25 - 12 + 14 \times \frac{2}{3} = 16$ $\Rightarrow 25 - 12 + \frac{28}{3} \neq 16$ Option (4) $25 - 12 + 14 \div 2 \times 4 = 15$ \Rightarrow 25 + 12 ÷ 14 × 2 - 4 = 15 $\Rightarrow 25 + \frac{6}{7} \times 2 - 4 \neq 15$ **51.** (1) $5 + 3 \times 8 - 12 \div 4 = 3$ \Rightarrow 5 + 3 × 8 ÷ 12 - 4 = 3 \Rightarrow 5 + 2 - 4 = 3 **52.** (3) 33 × 11 ÷ 3 - 6 = 115 6 53. (4) × 4 ÷ 70 + 10 – 2 = ? ⇒? = 14 + 4 - 70 ÷ 10 × 2 \Rightarrow ? = 14 + 4 - 7 × 2 ⇒? = 18 - 14 = 4 **54**. (1) Option (1) $5 \times 8 - 5 + 5 \div 1 = 12$ \Rightarrow 5 + 8 × 5 ÷ 5 - 1 = 12 \Rightarrow 5 + 8 × 1 - 1 = 12 \Rightarrow 5 + 8 - 1 = 12 Option (2) $55 - 2 + 10 \div 1 \times 5 = 16$ \Rightarrow 55 × 2 ÷ 10 – 1 + 5 = 16 $\Rightarrow \frac{55 \times 2}{10} - 1 + 5 = 16$ \Rightarrow 11 – 1 + 5 \neq 16 Option (3) $38 \div 10 - 5 + 7 \times 8 = 25$ \Rightarrow 38 - 10 × 5 ÷ 7 + 8 = 25 \Rightarrow 38 - $\frac{10 \times 5}{7}$ + 8 = 25

 \Rightarrow 38 - $\frac{50}{7}$ + 8 \neq 25 Option (4) $10 - 12 + 2 \div 30 \times 1 = 10$ \Rightarrow 10 × 12 ÷ 2 - 30 + 1 = 10 \Rightarrow 10 × 6 - 30 + 1 = 10 \Rightarrow 60 - 30 + 1 \neq 10 **55**. (3) _ ⇒+ $\times \Rightarrow$ Option (1) 22 + 7 - 3 × 9 = 148 $\Rightarrow 22 \times 7 + 3 - 9 = 148$ \Rightarrow 154 + 3 - 9 = 148 Option (2) 33 × 5 - 10 + 20 = 228 ⇒ 33 – 5 + 10 × 20 = 228 \Rightarrow 33 - 5 + 200 = 228 \Rightarrow 233 - 5 = 228 Option (3) $7 \times 28 - 3 \times 52 = 127$ \Rightarrow 7 × 28 + 3 - 52 = 127 \Rightarrow 196 + 3 - 52 = 127 \Rightarrow 199 - 52 \neq 127 Option (4) $44 - 9 + 6 \times 11 = 87$ \Rightarrow 44 + 9 × 6 - 11 = 87 \Rightarrow 44 + 54 - 11 = 87 ⇒ 98 - 11 = 87 **56**. (2) $+ \Rightarrow \div$ $\times \Rightarrow +$ -⇒× ÷⇒-Option (1) $5 - 3 + 2 \times 4 \div 8 = 2$ \Rightarrow 5 × 3 ÷ 2 + 4 - 8 = 2 $\Rightarrow 5 \times \frac{3}{2} + 4 - 8 = 2$ $\Rightarrow \frac{15}{2} + 4 - 8 = 2$ $\Rightarrow \frac{15+8-16}{2} \neq 2$ Option (2) $5 \times 3 + 2 - 4 \times 8 = 19$ \Rightarrow 5 + 3 ÷ 2 × 4 + 8 = 19 \Rightarrow 5 + $\frac{3}{2}$ × 4 + 8 = 19 \Rightarrow 5 + 3 × 2 +8 = 19 \Rightarrow 5 + 6 + 8 = 19 Option (3) $5 \div 3 \times 2 - 4 + 8 = 8$ \Rightarrow 5 - 3 + 2 × 4 ÷ 8 = 8



| | · · · · · | |
|-----|--|------------|
| | $\Rightarrow 15 - 5 + 2 \times 2 = 28$ $\Rightarrow 15 - 5 + 4 \neq 28$ (2) $15 \times 5 + 2 - 6 \div 3 = 56.5$ $\Rightarrow 15 + 5 \div 2 \times 6 - 3 = 56.5$ $\Rightarrow 15 + 2.5 \times 6 - 3 = 56.5$ $\Rightarrow 15 + 15 - 3 \neq 56.5$ (3) $15 + 5 - 2 \div 6 \times 3 = 3$ $\Rightarrow 15 \div 5 \times 2 - 6 + 3 = 3$ $\Rightarrow 3 \times 2 - 6 + 3 = 3$ $\Rightarrow 6 - 6 + 3 = 3$ (4) $15 - 5 + 2 \times 6 \div 3 = 41$ $\Rightarrow 15 \times 5 \div 2 + 6 - 3 = 41$ $\Rightarrow 15 \times 2.5 + 6 - 3 = 41$ $\Rightarrow 37.5 + 6 - 3 \neq 41$ | 63. 64. |
| 61. | | 0 |
| | Option (1) $36 \times 4 - 12 + 5 \div 3 = 420$ $\Rightarrow 36 + 4 \div 12 \times 5 - 3 = 420$ | |
| | $\Rightarrow 36 + \frac{4}{12} \times 5 - 3 = 420$ | |
| | $\Rightarrow 36 + \frac{5}{3} - 3 = 420$ $\Rightarrow \frac{108 + 5 - 9}{3} = 420$ | : |
| (| $\frac{104}{3} \neq 420$ | |
| て | Option (2) $52 \div 4 + 5 \times 8 - 2 = 36$ $\Rightarrow 52 - 4 \times 5 + 8 \div 2 = 36$ $\Rightarrow 52 - 4 \times 5 + 4 = 36$ $\Rightarrow 52 - 20 + 4 = 36$ $\Rightarrow 56 - 20 = 36$ | |
| | Option (3) $36 - 12 \times 6 \div 3 + 4 = 60$ $\Rightarrow 36 \div 12 + 6 - 3 \times 4 = 60$ $\Rightarrow 3 + 6 - 12 \neq 60$ Option (4) $43 \times 7 \div 5 + 4 - 8 = 25$ $\Rightarrow 43 + 7 - 5 \times 4 \div 8 = 25$ | |
| | $\Rightarrow 43 + 7 - \frac{5}{2} = 25$ | : |
| | $\Rightarrow 50 - \frac{5}{2} \neq 25$ | : |
| 62. | (3) $a \Rightarrow \div b \Rightarrow + c \Rightarrow - d \Rightarrow \times$ 24 a 6 d 4 b 9 c 8 = ? $\Rightarrow ? = 24 \div 6 \times 4 + 9 - 8$ $\Rightarrow ? = 4 \times 4 + 9 - 8$ $\Rightarrow ? = 16 + 9 - 8 = 17$ | 65. |

3. (2)
$$\frac{x \Rightarrow + + \Rightarrow \div}{|-\Rightarrow \times |+\Rightarrow \Rightarrow -|}$$

 $6 \times 4 - 5 + 2 \div 1 = ?$
 $\Rightarrow ? = 6 + 4 \times 5 \div 2 - 1$
 $\Rightarrow ? = 6 + 10 - 1 = 15$
b4. (3)
$$\frac{+\Rightarrow + |\times| \Rightarrow + |\times| \Rightarrow + |+> + |\times| \Rightarrow + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> + |+> +$$

Option (2) $18 \div 6 + 4 - 2 \div 3 = 22$ \Rightarrow 18 - 6 × 4 ÷ 2 - 3 = 22 \Rightarrow 18 - 6 × 2 - 3 = 22 \Rightarrow 18 – 12 – 3 \neq 22 Option (3) $18 + 6 - 4 \times 2 \div 3 = 26$ \Rightarrow 18 × 6 ÷ 4 + 2 - 3 = 26 $\Rightarrow 27 + 2 - 3 = 26$ Option (4) $18 \times 6 - 4 + 7 \times 8 = 47$ \Rightarrow 18 + 6 ÷ 4 × 7 + 8 = 47 $\Rightarrow 18 + \frac{3}{2} \times 7 + 8 = 47$ \Rightarrow 18 + $\frac{21}{2}$ + 8 = 47 $\Rightarrow \frac{36+21+16}{2} = 47$ \Rightarrow 73 \neq 47 \times 2 **66.** (3) $|+ \Rightarrow \times |- \Rightarrow \div$ $\times \Rightarrow - | \div \Rightarrow +$ $16 \div 64 - 8 \times 4 + 2 = ?$ \Rightarrow ? = 16 + 64 ÷ 8 - 4 × 2 \Rightarrow ? = 16 + 8 - 8 = 16 * ⇒ + #⇒-**67**. (1) $\% \Rightarrow \div$ $@\Rightarrow \times$ Option (1) 256 % 16 @ 5 # 28 = 52 ⇒256 ÷ 16 × 5 − 28 = 52 ⇒16 × 5 - 28 = 52 \Rightarrow 80 - 28 = 52 Option (2) 256 # 16 % 5 # 28 = 120 ⇒256 - 16 ÷ 5 - 28 = 120 $\Rightarrow 256 - \frac{16}{5} - 28 \neq 120$ Option (3) 256 @ 5 % 16 * 28 = 408 \Rightarrow 256 × 5 ÷ 16 + 28 = 408 $\Rightarrow \frac{256 \times 5}{16} + 28 \neq 408$ Option (4) 256 # 16 @ 5 % 28 = 80 \Rightarrow 256 - 16 + 5 ÷ 28 = 80 $\Rightarrow 256 - 16 + \frac{5}{28} \neq 80$

68. (4) $\Rightarrow \Rightarrow \times$ $\times \Rightarrow$ -- ⇒ + $+ \Rightarrow \div$ $48 + 6 - 12 \div 2 + 10 = ?$ \Rightarrow ? = 48 ÷ 6 + 12 × 2 ÷ 10 $\Rightarrow ? = 8 + 12 \times \frac{2}{10}$ \Rightarrow ? = $20 \times \frac{2}{10} = 4$ **69.** (2) $5 \times 3 + 8 - 4 \div 2 = 21$ \Rightarrow 15 + 8 - 2 = 21 **70.** (3) $a \Rightarrow + b \Rightarrow \times$ $c \Rightarrow \div | d \Rightarrow -$ 20 a 10 b 45 c 5 d 12 = ? \Rightarrow ? = 20 + 10 × 45 ÷ 5 - 12 \Rightarrow ? = 20 + 10 × 9 - 12 \Rightarrow ? = 20 + 90 - 12 = 98 71. (*) $+ \Rightarrow \div | \times \Rightarrow +$ $- \Rightarrow \times$ **Option (1)** 25 × 3 - 7 ÷ 8 + 12 = 18 25 + 3 × 7 – 8 ÷ 12 = 18 $25 + 3 \times 7 - \frac{8}{12} = 18$ \Rightarrow 25 + 21 - $\frac{2}{3}$ = 18 \Rightarrow 46 - $\frac{2}{2}$ = 18 $\Rightarrow \frac{138-2}{2} = 18$ \Rightarrow 136 \neq 18 \times 3 Option (2) $25 + 3 \times 7 - 8 \div 12 = 10.89$ \Rightarrow 25 ÷ 3 + 7 × 8 - 12 = 10.89 $\Rightarrow \frac{25}{3} + 56 - 12 = 10.89$ $\Rightarrow \frac{25+168-36}{2} = 10.89$ ⇒ 157 ≠ 10.89 × 3 Option (3) $25 - 3 \div 7 \times 8 + 12 = 132$ \Rightarrow 25 × 3 - 7 + 8 ÷ 12 = 132 $\Rightarrow 75 - 7 + \frac{8}{12} = 132$

 $\Rightarrow 75 - 7 + \frac{2}{3} = 132$ $\Rightarrow \frac{225-21+2}{2} = 132$ \Rightarrow 206 \neq 132 \times 3 Option (4) $25 \div 3 \times 7 - 8 + 12 = 19.3$ \Rightarrow 25 - 3 + 7 × 8 ÷ 12 = 19.3 $\Rightarrow 25 - 3 + \frac{56}{12} = 19.3$ $\Rightarrow 25 - 3 + \frac{14}{2} = 19.3$ $\frac{75 - 9 + 14}{3} = 19.3$ \Rightarrow 80 \neq 19.3 \times 3 **72**. (4) 4 × 3 × 4 = 48 73. (1) Option (1) $18 + 6 \div 5 = 9.6$ \Rightarrow 18 ÷ 5 + 6 = 9.6 \Rightarrow 3.6 + 6 = 9.6 Option (2) $26 \div 5 + 6 = 6.4$ \Rightarrow 26 + 6 ÷ 5 = 6.4 \Rightarrow 26 + 1.2 \neq 6.4 Option (3) $5 \div 6 + 80 = 5.8$ \Rightarrow 6 + 5 ÷ 80 = 5.8 \Rightarrow 6 + 0.0625 \neq 5.8 Option (4) $90 + 5 \div 6 = 8.6$ \Rightarrow 90 ÷ 6 + 5 = 8.6 \Rightarrow 15 + 5 \neq 8.6 $- \Rightarrow + | + \Rightarrow \times$ **74**. (2) $\Rightarrow \Rightarrow \times \Rightarrow \div$ Option (1) $5 + 2 - 12 \div 6 \times 2 = 13$ \Rightarrow 5 × 2 + 12 - 6 ÷ 2 = 13 \Rightarrow 10 + 12 - 3 = 13 \Rightarrow 22 - 3 \neq 13 Option (2) $5 + 2 - 12 \times 6 \div 2 = 10$ \Rightarrow 5 × 2 + 12 ÷ 6 - 2 = 10 \Rightarrow 10 + 2 - 2 = 10 Option (3) $5 \div 2 + 12 \times 6 - 2 = 4$ \Rightarrow 5 - 2 × 12 ÷ 6 + 2 = 4 \Rightarrow 5 - 2 × 2 + 2 = 4 \Rightarrow 5 - 4 + 2 = 4 \Rightarrow 7 – 4 \neq 4

Option (4) $5 - 2 + 12 \times 6 \div 2 = 27$ \Rightarrow 5 + 2 × 12 ÷ 6 - 2 = 27 \Rightarrow 5 + 2 × 2 - 2 = 27 \Rightarrow 5 + 4 - 2 \neq 27 **75.** (3) $P \Rightarrow \div Q \Rightarrow \times$ $R \Rightarrow + | S \Rightarrow -$ 16 Q 12 P 6 R 5 S 4 = ? \Rightarrow ? = 16 × 12 ÷ 6 + 5 - 4 \Rightarrow ? = 16 × 2 + 5 - 4 \Rightarrow ? = 32 + 5 - 4 \Rightarrow ? = 37 - 4 = 33 **76.** (3) $|+\Rightarrow \div| \div \Rightarrow +$ $\times \Rightarrow - | - \Rightarrow \times$ $(30 + 20) - 5(7 \div 3) \times 25 = ?$ \Rightarrow ? = (30 - 20) × 5 (7 + 3) ÷ 25 \Rightarrow ? = 10 × 5 × 10 ÷ 25 = 20 **77**. (2) +⇒ + + ⇒ -- ⇒ × | × ⇒ + $12 - 8 \times 6 - 4 \div 6 + 3 = ?$ \Rightarrow ? = 12 × 8 + 6 × 4 - 6 ÷ 3 ⇒? = 96 + 24 - 2 ⇒? = 120 - 2 = 118 **78**. (3) $+ \Rightarrow \div$ $\div \Longrightarrow \times$ $\times \Rightarrow +$ $64 + 8 \times 32 \div 4 = ?$ \Rightarrow ? = 64 ÷ 8 + 32 × 4 \Rightarrow ? = 8 + 128 = 136 $+ \Rightarrow \times$ $\div \Rightarrow - \times \Rightarrow \div$ 27 × 3 ÷ 6 + 9 - 8 = ? \Rightarrow ? = 27 ÷ 3 – 6 × 9 + 8 ⇒?=9-54+8 = 17 - 54 = -37 **80.** (4) $4 \times 6 \div 2 - 4 + 8 = 16$ \Rightarrow 4 × 3 - 4 + 8 = 16 \Rightarrow 12 - 4 + 8 = 16 **81**. (1) *b af* ÷ *bf* × *d* \Rightarrow 105 ÷ 15 × 3 \Rightarrow 7 × 3 = 21 \Rightarrow cb **82.** (1) $5 + 3 \times 8 - 12 \div 4 = 3$ \Rightarrow 5 + 3 × 8 ÷ 12 - 4 = 3 \Rightarrow 5 + $\frac{3 \times 8}{12}$ - 4 = 3 \Rightarrow 5 + 2 - 4 = 3

83. (4) $|+\Rightarrow \div | \times \Rightarrow +$ $- \Rightarrow \times | \div \Rightarrow -$ Option (1) $33 \times 4 - 5 + 6 \div 2 = 26$ \Rightarrow 33 + 4 × 5 ÷ 6 - 2 = 26 \Rightarrow 33 + $\frac{10}{3}$ - 2 = 26 $\Rightarrow \frac{99+10-6}{3} \neq 26$ Option (2) $33 \div 4 \times 5 + 6 - 2 = 30$ \Rightarrow 33 - 4 + 5 ÷ 6 × 2 = 30 \Rightarrow 33 - 4 + $\frac{5}{6}$ × 2 = 30 $\Rightarrow 33 - 4 + \frac{5}{3} = 30$ $\Rightarrow \frac{99-12+5}{3} \neq 30$ Option (3) 33 - 4 + 5 ÷ 6 × 2 = 24 > 33 × 4 ÷ 5 - 6 + 2 = 24 $\frac{132}{-6} - 6 + 2 = 24$ $\frac{132 - 30 + 10}{5} = 24$ ⇒ 112 ≠ 120 Option (4) $33 - 4 \div 5 \times 6 + 2 = 130$ \Rightarrow 33 × 4 – 5 + 6 ÷ 2 = 130 \Rightarrow 132 - 5 + 3 = 130 \Rightarrow 135 - 5 = 130 **84**. (3) $x \Rightarrow + | - \Rightarrow \div$ ÷⇒ -+ ⇒× Option (1) $16 \times 5 \div 10 + 4 - 3 = 19$ \Rightarrow 16 + 5 - 10 × 4 ÷ 3 = 19 $\Rightarrow 16 + 5 - \frac{10 \times 4}{3} = 19$ $\Rightarrow 21 - \frac{40}{3} = 19$ $\Rightarrow \frac{63-40}{3} = 19$ $\Rightarrow \frac{23}{2} \neq 19$

Option (2) $16 + 5 \div 10 \times 4 - 3 = 9$ \Rightarrow 16 × 5 - 10 + 4 ÷ 3 = 9 \Rightarrow 80 - 10 + $\frac{4}{3}$ = 9 $\Rightarrow \frac{240-30+4}{3} = 9$ $\Rightarrow \frac{214}{3} \neq 9$ Option (3) $16 + 5 - 10 \times 4 \div 3 = 9$ \Rightarrow 16 \times 5 \Rightarrow 10 + 4 - 3 = 9 ⇒ 8 ± 4 − 3 = 9 Option (4) $16 - 5 \times 10 \div 4 + 3 = 12$ ⇒ 16 ÷ 5 + 10 – 4 × 3 = 12 $\Rightarrow \frac{16}{5} + 10 - 12 = 12$ $\Rightarrow \frac{16+50-60}{5} = 12$ $\Rightarrow \frac{66-60}{5} \neq 12$ **85.** (3) $+ \Rightarrow \times - \Rightarrow +$ $x \Rightarrow \div | \div \Rightarrow 9 - 4 + 2 \div 16 \times 2 = ?$ \Rightarrow ? = 9 + 4 × 2 - 16 ÷ 2 \Rightarrow ? = 9 + 4 × 2 - 8 \Rightarrow ? = 9 + 8 - 8 = 9 **86.** (3) $92 \times 4 \div 2 = 184$ \Rightarrow 92 × 2 = 184 **87.** (*) $|+\Rightarrow \div | \div \Rightarrow \times$ $\times \Rightarrow - | - \Rightarrow +$ Option (1) $30 \times 40 + 8 - 70 \div 40 = 180$ \Rightarrow 30 - 40 ÷ 8 + 70 × 40 = 180 \Rightarrow 30 - 5 + 2800 = 180 ⇒ 2830 – 5 ≠ 180 Option (2) $30 + 40 \div 8 \times 70 - 40 = 340$ \Rightarrow 30 ÷ 40 × 8 - 70 + 40 = 340 \Rightarrow 6 - 70 + 40 = 340 \Rightarrow 46 - 70 \neq 340 Option (3) $30 - 40 \times 8 \div 70 + 40 = 180$ \Rightarrow 30 + 40 - 8 × 70 ÷ 40 = 180 \Rightarrow 30 + 40 - 14 \neq 180

Option (4) $30 + 40 + 8 \times 70 - 40 = 340$ \Rightarrow 30 ÷ 40 ÷ 8 - 70 + 40 = 340 $\Rightarrow \frac{3}{48} - 70 + 40 \neq 340$ **88.** (1) $\boxed{\times \Rightarrow} + | - \Rightarrow \div$ /⇒- $+ \Rightarrow \times$ Option (1) $25 + 10 - 5/10 \times 3 = 43$ $\Rightarrow 25 \times 10 \div 5 - 10 + 3 = 43$ $\Rightarrow 25 \times 2 - 10 + 3 = 43$ \Rightarrow 50 - 10 + 3 = 43 \Rightarrow 53 - 10 = 43 Option (2) $25 - 10 \times 5 + 10/3 = 72$ \Rightarrow 25 ÷ 10 + 5 × 10 - 3 = 72 \Rightarrow 2.5 + 50 - 3 = 72 \Rightarrow 52.5 - 3 \neq 72 Option (3) $25 \times 10/5 + 10 - 3 = 12$ \Rightarrow 25 + 10 - 5 × 10 ÷ 3 = 12 $\Rightarrow 25 + 10 - \frac{5 \times 10}{3} = 12$ $\Rightarrow 25 + 10 - 16.66 = 12$ ⇒ 35 - 16.66 ≠ 12 Option (4) 25/10 + 5 × 10/3 = 18 $\Rightarrow 25 - 10 \times 5 + 10 - 3 = 18$ $\Rightarrow 25 - 50 + 10 - 3 = 18$ \Rightarrow 35 - 53 \neq 18 **89**. (3) | ₊ ⇒ × | -⇒ $\times \Rightarrow \div$ $128 + 9 - 16 \times 4 = ?$ ⇒? = 128 × 9 + 16 ÷ 4 ⇒? = 128 × 9 + 4 1152 + 4 = 1156 **90**. (4) + ⇒ ÷ $\div \Rightarrow \times$ $- \Rightarrow +$ $\times \Longrightarrow -$ Option (1) $18 \times 6 + 7 \div 5 - 2 = 16$ \Rightarrow 18 - 6 ÷ 7 × 5 + 2 = 16 $\Rightarrow 18 - \frac{6}{7} \times 5 + 2 = 16$ \Rightarrow 18 - $\frac{30}{7}$ + 2 = 16

 $\Rightarrow \frac{126 - 30 + 14}{7} = 16$ $\Rightarrow \frac{110}{7} \neq 16$ Option (2) $18 \div 6 \times 7 + 5 - 2 = 22$ \Rightarrow 18 × 6 - 7 ÷ 5 + 2 = 22 \Rightarrow 108 - $\frac{7}{5}$ + 2 \neq 22 Option (3) $18 \div 6 - 7 + 5 \times 2 = 20$ \Rightarrow 18 × 6 + 7 ÷ 5 - 2 = 20 \Rightarrow 108 + $\frac{7}{5}$ - 2 \neq 20 Option (4) $18 + 6 \div 7 \times 5 - 2 = 18$ \Rightarrow 18 ÷ 6 × 7 – 5 + 2 = 18 \Rightarrow 3 × 7 – 5 + 2 = 18 \Rightarrow 21 - 5 + 2 = 18 **91**. (3) +⇒× Option (1) 12 × 5 + 4 - 5 ÷ 4 = 20 ⇒ 12 + 5 × 4 ÷ 5 - 4 = 20 $\Rightarrow 12 + 5 \times \frac{4}{5} - 4 = 20$ \Rightarrow 12 + 4 - 4 \neq 20 Option (2) $12 \div 5 + 4 - 5 \times 4 = 18$ \Rightarrow 12 - 5 × 4 ÷ 5 + 4 = 18 \Rightarrow 12 - $\frac{5 \times 4}{5}$ + 4 = 18 \Rightarrow 12 - 4 + 4 \neq 18 Option (3) $12 + 5 - 4 \times 5 \div 4 = 16$ \Rightarrow 12 × 5 ÷ 4 + 5 – 4 = 16 $\Rightarrow 12 \times \frac{5}{4} + 5 - 4 = 16$ \Rightarrow 15 + 5 - 4 = 16 Option (4) $12 \div 5 - 4 \times 5 + 4 = 22$ \Rightarrow 12 - 5 ÷ 4 + 5 × 4 = 22 \Rightarrow 12 - $\frac{5}{4}$ + 20 = 22 $\Rightarrow \frac{48-5+80}{4} = 22$ $\Rightarrow \frac{123}{4} \neq 20$

92. (2) $| \div \Rightarrow + | + \Rightarrow \times$ $\times \Rightarrow - \mid - \Rightarrow \div$ $[(1440 - 36 \times 16) + 15] + 5 \div$ (144 - 12) + 25 = ? \Rightarrow ? = [(1440 ÷ 36 – 16) × 15] × 5 + (144 ÷ 12) × 25 \Rightarrow ? = [(40 - 16) × 15] × 5 + (12) × 25 \Rightarrow ? = [24 × 15] × 5 + 300 \Rightarrow ? = 360 × 5 + 300 = 1800 + 300 = 2100 \Rightarrow **93**. (1) $- \Rightarrow +$ $\Rightarrow \div$ $\div \Rightarrow$ -50 + 10 - 50 × 10 ÷ 125 = ? ⇒ ? = 50 × 10 + 50 ÷ 10 - 125 ⇒ ? = 500 + 5 - 125 ⇒ ? = 505 - 125 = 380 **94.** (3) $\times \Rightarrow - - \Rightarrow \div$ $+ \Rightarrow \times | \div \Rightarrow +$ $16 \times 8 \div 4 - 3 + 9 = ?$ \Rightarrow ? = 16 - 8 + 4 ÷ 3 × 9 $\Rightarrow ? = 16 - 8 + \frac{4}{2} \times 9$ \Rightarrow ? = 16 - 8 + 12 ⇒ ? = 28 - 8 = 20 **95**. (2) $- \Rightarrow \div | + \Rightarrow \times$ $\div \Rightarrow - | \times \Rightarrow +$ Option (1) $18 \div 3 \times 2 + 8 - 6 = 10$ \Rightarrow 18 - 3 + 2 × 8 ÷ 6 = 10 \Rightarrow 18 - 3 + 2 × 8 = 10 $\Rightarrow 18 - 3 + \frac{8}{3} \neq 10$ Option (2) $18 - 3 + 2 \times 8 \div 6 = 14$ \Rightarrow 18 ÷ 3 × 2 + 8 - 6 = 14 \Rightarrow 6 × 2 + 8 - 6 = 14 \Rightarrow 12 + 8 - 6 = 14 Option (3) $18 - 3 \div 2 \times 8 + 6 = 17$ \Rightarrow 18 ÷ 3 – 2 + 8 × 6 = 17 \Rightarrow 6 - 2 + 48 \neq 17 Option (4) $18 \times 3 + 2 \div 8 - 6 = 15$ \Rightarrow 18 + 3 × 2 - 8 ÷ 6 = 15

 $\Rightarrow 18 + 6 - \frac{8}{6} \neq 15$ **96.** (1) $|+\Rightarrow \times|-\Rightarrow \div$ $\times \Rightarrow - | \div \Rightarrow +$ $6 + 64 - 8 \div 45 \times 8 = ?$ \Rightarrow ? = 6 × 64 ÷ 8 + 45 - 8 \Rightarrow ? = 6 × 8 + 45 - 8 \Rightarrow ? = 48 + 45 - 8 ⇒ ? = 93 - 8 = 85 $- \Rightarrow \times$ $\times \Rightarrow \div$ $\Rightarrow \Rightarrow +$ $2 \div 6 \times 6 \div 2 = ?$ \Rightarrow ? = 2 + 6 ÷ 6 + 2 \Rightarrow ? = 2 + 1 + 2 = 5 **98**. (1) $+ \Rightarrow \div | \div \Rightarrow - \Rightarrow \times | \times \Rightarrow +$ $8 + 4 \div 3 \times 5 - 9 = ?$ \Rightarrow ? = 8 ÷ 4 – 3 + 5 × 9 \Rightarrow ? = 2 - 3 + 45 \Rightarrow ? = 47 - 3 = 44 **99.** (*) $\boxed{\times \Rightarrow} - | + \Rightarrow \times$ $\div \Longrightarrow +$ - ⇒÷ $175 - 25 \div 5 + 2 \times 3 + 10 = ?$ \Rightarrow ? = 175 ÷ 25 + 5 × 2 - 3 × 10 \Rightarrow ? = 7 + 10 - 30 \Rightarrow ? = 17 - 30 = - 13 **100**. (1) | – ⇒ ÷ $+ \Rightarrow \times$ ÷⇒- $\times \Rightarrow +$ Option (1) $20 - 4 + 6 \neq 9 \times 4 = 25$ \Rightarrow 20 ÷ 4 × 6 – 9 + 4 = 25 \Rightarrow 5 × 6 – 9 + 4 = 25 \Rightarrow 30 - 9 + 4 = 25 Option (2) $20 + 6 - 4 \times 9 \div 6 = 32$ $\Rightarrow 20 \times 6 \div 4 + 9 - 6 = 32$ ⇒ 30 + 9 - 6 ≠ 32 Option (3) $20 \div 9 \times 9 - 4 + 6 = 33$ \Rightarrow 20 - 9 + 9 ÷ 4 × 6 = 33 $\Rightarrow 20 - 9 + \frac{9}{4} \times 6 = 33$

$\Rightarrow 20 - 9 + \frac{27}{2} = 33$ $\Rightarrow \frac{40-18+27}{2} = 33$ \Rightarrow 49 \neq 2 \times 33

Option (4) $20 \times 4 - 6 - 4 + 9 = 20$ \Rightarrow 20 + 4 ÷ 6 ÷ 4 × 9 = 20 $\Rightarrow 20 + \frac{4}{6} \times \frac{1}{4} \times 9 = 20$ $\Rightarrow 20 + \frac{3}{2} \neq 20$ **101.** (1) $@\Rightarrow + @\Rightarrow$ $a \Rightarrow \div \mid \theta \Rightarrow \times$ 8900 *a* 100 ⊕ 5 θ 4 ⊕ 121 *a* 11 \Rightarrow 8900 ÷ 100 – 5 × 4 – 121 ÷ 11 ⇒ 89 - 20 - 11 ⇒ 89 - 31 = 58 **102.** (1) $\left[- \Rightarrow \div \right] + \Rightarrow \times$ $\Rightarrow \Rightarrow \times \Rightarrow +$ Option (1) 100 + 5 - 10 × 250 ÷ 200 = 100 ⇒ 100 × 5 ÷ 10 + 250 - 200 = 100 \Rightarrow 50 + 250 - 200 = 100 Option (2) 200 + 10 - 20 × 200 ÷ 100 = 150 \Rightarrow 200 × 10 ÷ 20 + 200 - 100 = 150 ⇒ 100 + 200 - 100 = 150 ⇒ 300 - 100 ≠ 150 Option (3) $50 \times 5 \div 10 + 100 - 75 = 50$ ⇒ 50 + 5 - 10 × 100 ÷ 75 = 50 $\Rightarrow 50 + 5 - \frac{10 \times 100}{75} = 50$ $\Rightarrow 50 + 5 - \frac{40}{3} = 50$ $\frac{150+15-40}{3} = 50$ \Rightarrow \Rightarrow 165 - 40 = 50 \times 3 ⇒ 125 ≠ 150 Option (4) $300 + 5 - 20 \times 200 \div 100 = 200$ \Rightarrow 300 × 5 ÷ 20 + 200 - 100 = 200 ⇒ 75 + 200 - 100 = 200 ⇒ 275 - 100 ≠ 200 **103**. (1) $- \Rightarrow \times$ $\times \Rightarrow +$ $+ \Rightarrow \div$ $\Rightarrow \Rightarrow 40 \times 12 + 3 - 6 \div 60 = ?$ \Rightarrow ? = 40 + 12 ÷ 3 × 6 - 60 \Rightarrow ? = 40 + 4 × 6 - 60 \Rightarrow ? = 40 + 24 - 60 = 4

104. (4) $25 + 5 \div 2 = 40$ \Rightarrow (25 × 2) – (5 × 2) = 40 \Rightarrow 50 - 10 = 40 $35 + 5 \div 2 = 60$ \Rightarrow (35 × 2) – (5 × 2) = 60 \Rightarrow 70 - 10 = 60 $45 + 5 \div 2$ \Rightarrow (45 × 2) – (5 × 2) \Rightarrow 90 - 10 = 80 **105**. (1) +⇒ + ÷⇒ $- \Rightarrow \times \times \Rightarrow$ 48 + 16 × 4 – 2 ÷ 8 \Rightarrow 48 ÷ 16 + 4 × 2 - 8 \Rightarrow 3 + 8 - 8 = 3 106. (2) $+ \Rightarrow - | - \Rightarrow \times$ $\div \Rightarrow + \mid \times \Rightarrow \div$ $15 - 3 + 10 \times 5 \div 5$ \Rightarrow 15 × 3 – 10 ÷ 5 + 5 \Rightarrow 45 - 2 + 5 = 48 **107**. (4) $\Rightarrow \Rightarrow - \mid - \Rightarrow +$ $\times \Rightarrow \div | + \Rightarrow \times$ 35 ÷ 4 – 25 × 5 + 5 \Rightarrow 35 - 4 + 25 ÷ 5 × 5 \Rightarrow 35 - 4 + 5 × 5 \Rightarrow 35 - 4 + 25 \Rightarrow 35 + 25 - 4 \Rightarrow 60 - 4 = 56 $\times \Rightarrow - | \div \Rightarrow +$ $16 \div 4 \times 10 - 5 + 8 = ?$ \Rightarrow ? = 16 + 4 - 10 ÷ 5 × 8 \Rightarrow ? = 16 + 4 - 2 × 8 \Rightarrow ? = 16 + 4 - 16 = 4 109. (4) $\boxed{+ \Rightarrow \div} \mid - \Rightarrow \times$ $\div \Rightarrow + \mid \times \Rightarrow 36 \times 12 + 4 \div 6 + 2 - 3 = ?$ \Rightarrow ? = 36 - 12 ÷ 4 + 6 ÷ 2 × 3 \Rightarrow ? = 36 - 3 + 3 × 3 \Rightarrow ? = 36 + 9 - 3 = | 42 **110**. (2) +⇒///⇒- $- \Rightarrow \times | \times \Rightarrow +$ $24 + 8/2 - 6 \times 6 = ?$ \Rightarrow ? = 24 ÷ 8 – 2 × 6 + 6 \Rightarrow ? = 3 - 2 × 6 + 6 \Rightarrow ? = 3 - 12 + 6 = - 3

| SYMBOLS & NOTATIONS | | | | |
|--|---|--|--|--|
| 111. (2) $+ \Rightarrow \div - \Rightarrow \times$ | Option (3) 9 – 8 × 4 + 2 ÷ 18 = 203 | TYPE-I (ii) | | |
| $\times \Rightarrow - \div \Rightarrow +$ | \Rightarrow 9 + 8 ÷ 4 × 2 - 18 = 203 | 1. (2) $\rightarrow \Rightarrow + \downarrow \leftarrow \Rightarrow -$ | | |
| $16 \div 8 - 4 + 2 \times 4 = ?$ | $\Rightarrow 9 + 2 \times 2 - 18 \neq 203$ | $\uparrow \Rightarrow \div \downarrow \Rightarrow \times$ | | |
| $\Rightarrow ? = 16 + 8 \times 4 \div 2 - 4$ $\Rightarrow ? = 16 + 8 \times 2 - 4$ | 115. (*) $- \Rightarrow \div + \Rightarrow \times$ | $7 \Rightarrow =$ | | |
| ⇒ ? = 16 + 16 - 4 = 28 | $\div \Rightarrow - \times \Rightarrow +$ | Option (1) | | |
| | Option (1) 43 × 7 ÷ 5 + 4 - 8 = 25 | $2 \downarrow 5 \leftarrow 6 \rightarrow 2 \nearrow 6$ After putting the value of signs | | |
| 112. (2) $\times \Rightarrow + + \Rightarrow \div$ | $\Rightarrow 43 + 7 - 5 \times 4 \div 8 = 25$ | $2 \times 5 - 6 + 2 = 6$ | | |
| $- \Rightarrow \times \div \Rightarrow -$ | \Rightarrow 43 + 7 - $\frac{5}{2} \neq 25$ | or, 10 - 6 + 2 = 6 | | |
| $8 \times 7 - 8 + 40 \div 2 = ?$ $\Rightarrow ? = 8 + 7 \times 8 \div 40 - 2$ | 2 | TYPE-I (iii) | | |
| | Option (2) 48 ÷ 5 + 8 × 10 - 2 = 03 | | | |
| $\Rightarrow ? = 8 + 7 \times \frac{8}{40} - 2$ | $\Rightarrow 48 - 5 \times 8 + 10 \div 2 = 03$ | 1. (2) $a \rightarrow \div b \rightarrow +$ | | |
| 7 | $\Rightarrow 48 - 40 + 5 = 03$ $\Rightarrow 53 - 40 \neq 03$ | $c \rightarrow - d \rightarrow \times$ | | |
| $\Rightarrow 8 + \frac{7}{5} - 2$ | Option (3) | Given expression | | |
| $\Rightarrow ? = \frac{40 + 7 - 10}{5}$ | $36 \times 4 - 12 + 5 \div 3 = 420 \Rightarrow 36 + 4 \div 12 \times 5 - 3 \neq 420$ | 24 a 6 d 4 b 9 c 8 = ? After conversion | | |
| $\Rightarrow f = \frac{5}{5}$ | | $? = 24 \div 6 \times 4 + 9 - 8$ | | |
| $\Rightarrow ? = \frac{37}{5}$ | $\Rightarrow 36 + \frac{5}{3} - 3 \neq 420$ | or, ? = 4 × 4 + 9 - 8 | | |
| 5 | Option (4) | or, ? = 16 + 9 - 8 or, ? = 25 - 8 = 17 | | |
| 113. (2) $8 \times 20 \div 3 + 9 - 5 = 38$ $\Rightarrow 8 \times 20 \div 5 + 9 - 3 = 38$ | $42 + 5 \div 6 \times 8 - 3 = 28$ $\Rightarrow 42 \times 5 - 6 + 8 \div 3 = 28$ | | | |
| $\Rightarrow 8 \times 4 + 9 - 3 = 38$ | | 2. (4) $A \Rightarrow + B \Rightarrow - C \Rightarrow \div$ | | |
| $\Rightarrow 32 + 9 - 3 = 38$ | $\Rightarrow 210 - 6 + \frac{8}{3} \neq 28$ | $\begin{array}{c c} D \Rightarrow \times & E \Rightarrow < & F \Rightarrow \\ \hline G \Rightarrow = & & \\ \end{array}$ | | |
| 114. (1) $+ \Rightarrow \times - \Rightarrow +$ | 116. (1) $P \Rightarrow + Q \Rightarrow \times$ | | | |
| $\times \Rightarrow \div \div \Rightarrow -$ | $\begin{array}{c c} \mathbf{P} \rightarrow \mathbf{F} & \mathbf{Q} \rightarrow \mathbf{X} \\ \mathbf{R} \rightarrow \mathbf{F} & \mathbf{S} \rightarrow \mathbf{F} \end{array}$ | Option (4) 9 A 7 B 4 C 2 G 14 | | |
| Option (1) | 44 Q 9 R 12 S 6 Q 4 P 16 = ? | ⇒9 + 7 - 4 ÷ 2 = 14 | | |
| $9 + 8 - 4 \times 2 \div 18 = 56$ | \Rightarrow ? = 44 × 9 ÷ 12 - 6 × 4 + 16 | ⇒ 9 + 7 - 2 = 14 | | |
| ⇒ 9 × 8 + 4 ÷ 2 − 18 = 56 ⇒ 72 + 2 − 18 = 56 | 9 | $P \Rightarrow + Q \Rightarrow -$ | | |
| ⇒ 74 - 18 = 56 | $\Rightarrow ? = 44 \times \frac{9}{12} - 6 \times 4 + 16$ | 3. (3) $R \Rightarrow \div S \Rightarrow \times$ | | |
| Option (2) | $\Rightarrow ? = 11 \times 3 - 6 \times 4 + 16$ $\Rightarrow ? = 33 - 24 + 16$ | 18 S 36 R 12 Q 6 P 7 = ? | | |
| $9 \times 8 + 4 \div 2 - 18 = 26$ $\Rightarrow 9 \div 8 \times 4 - 2 + 18 = 26$ | | or, ? = 18 × 36 ÷ 12 – 6 +7 or, ? = 18 × 3 – 6 + 7 | | |
| 9 | ⇒ ? = 49 - 24 = 25 | or, $? = 54 - 6 + 7$ | | |
| $\Rightarrow \frac{5}{8} \times 4 - 2 + 18 = 26$ | 117. (2) $+ \Rightarrow \Rightarrow \times$ | or, $? = 61 - 6 = 55$ | | |
| 9-4+36 | $\div \Rightarrow + \times \Rightarrow \div$ | 4. (4) | | |
| \Rightarrow 2 = 26 | 15 – 3 + 10 × 5 ÷ 5 | $A \Rightarrow = B \Rightarrow \langle C \Rightarrow \rangle$ | | |
| ⇒ 45 - 4 ≠ 26 × 2 | \Rightarrow 15 × 3 – 10 ÷ 5 + 5 | $D \Rightarrow \not > E \Rightarrow \neq F \Rightarrow \not <$ | | |
| Option (3) 9 × 8 ÷ 4 + 2 - 18 = 200 | \Rightarrow 45 - 2 + 5 = 48 | Premises 3 X B ≠ 2Y and 2YDZ | | |
| $\Rightarrow 9 \div 8 - 4 \times 2 + 18 = 200$ | 118. (1) $+ \Rightarrow \times -\Rightarrow + $ | or, 3 X < 2Y and 2Y ≯ Z | | |
| 9 | $\begin{array}{c c} & + \Rightarrow \times & - \Rightarrow + \\ \hline & \times \Rightarrow \div & \div \Rightarrow - \end{array}$ | It is clear that 2 Y is either equal | | |
| $\Rightarrow \frac{9}{8} - 8 + 18 = 200$ | | to or less than Z. Thus, 3 X < Z | | |
| $\Rightarrow \frac{9-64+144}{8} = 200$ | $12 \times 2 + 6 - 7 \div 5 = ?$ $\Rightarrow ? = 12 \div 2 \times 6 + 7 - 5$ | Option (1) | | |
| 0 | $\Rightarrow ? = 6 \times 6 + 7 - 5$ | 3 X AZ = 3X = Z : Not true Option (2) | | |
| ⇒ 153 - 64 ≠ 200 × 8 | ⇒? = 36 + 7 - 5 = <mark>38</mark> | 3 X DZ = 3X≯Z | | |
| | | I | | |

| M (⇒

 $M \Rightarrow \times |L \Rightarrow <$

20

 \Rightarrow ? = 25 + 37 × 2 ÷ 4 - 1

G⇒>

32

The equation implies that 3 X is either equal to or less than Z. Therefore, the given equation is not true. Option (3) 3 X FZ = 3 X∢Z It is also not true. Option (4) 3X BZ = 3 X < Z Clearly 3 X is less than Z. 5. (2) Premises 7 X < 3 Y and 6 Y ≯ 2 Z or, $6Y \leq 2Z$ Therefore, $7X < 2Z \Rightarrow 7 X B 2Z$ **6.** (2) $| J \Rightarrow + | K \Rightarrow L \Rightarrow \div | M \Rightarrow \times$ **Given expression** 18 M 36 L 12 K 6 J 7 = ? After conversion $? = 18 \times 36 \div 12 - 6 + 7$ or, $? = 18 \times 3 - 6 + 7$ or, ? = 54 - 6 + 7 = 557. (4) Option (1) 15 C 15 B 8 F 4 B 6 C 3 \Rightarrow 15 ÷ 15 + 8 < 4 + 6 ÷ 3 ⇒ 1 + 8 ≰ 4 + 2 Option (2) 15 B 5 G 8 B 4 G 6 F 3 \Rightarrow 15 + 5 - 8 + 4 - 6 < 3 ⇒ 24 - 14 ≰ 3 Option (3) 15 A 5 E 8 C 4 B 6 E 3 \Rightarrow 15 > 5 × 8 ÷ 4 + 6 × ⇒ 15 ≯ 10 + 18 Option (4) 15 C 5 F 8 C 4 B 6 C 3 \Rightarrow 15 \div 5 < 8 ÷ 4 + 6 ÷ 3 .3 < \rightarrow 8. (3) A $B \rightarrow D \rightarrow +$ Option (1) 8 B 6 D 2 A 4 C 3 = 15 or, $8 - 6 \div 2 + 4 \times 3 = 15$ or, $8 - 3 + 4 \times 3 = 15$ or, 8 - 3 + 12 = 15 or, 20 - 3 = 15 or, 17 ≠ 15 Option (2) 9 C 9 B 9 D 9 A 9 = 17 or, $9 \times 9 - 9 \div 9 + 9 = 17$

or, $9 \times 9 - 1 + 9 = 17$

-| SYMBOLS & NOTATIONS |or, 81 - 1 + 9 = 17 **13**. (2) $P \Rightarrow - Q \Rightarrow X$ or, 90 – 1 ≠ 17 $R \Rightarrow \div | S \Rightarrow +$ Option (3) $14 \times 3 - 12 + 4 \div 2$ 8 A 8 B 8 C 8 = -48 or, $8 + 8 - 8 \times 8 = -48$ \Rightarrow 42 - 12 + 2 \Rightarrow 44 - 12 or, 8 + 8 - 64 = -48or, 16 - 64 = - 48 **14**. (3) L ⇒ × $P \implies + | Q$ **9**. (2) $A \rightarrow \times D \rightarrow +$ $G \rightarrow -$ 16 P 24 M 8 Q 6 M 2 L 3 = ? \Rightarrow ? = 16 + 24 ÷ 8 – 6 ÷ 2 × 3 Given expression \Rightarrow ? = 16 + 3 - 3 × 3 7 A 4 D 4 A 3 G 2 After conversion \Rightarrow ? = 16 + 3 - 9 = 10 $? = 7 \times 4 + 4 \times 3 - 2$ or, ? = 28 + 12 - 2 15. (3) $A \Rightarrow +$ or, ? = 40 - 2 = 38 $D \Rightarrow \div$ **10.** (2) $\boxed{L \Rightarrow M M} \Rightarrow -$ 20 A 4 D 4 L 4 A 6 D 2 $N \Rightarrow \times | P \Rightarrow \div$ \Rightarrow 20 + 4 ÷ 4 < 4 + 6 ÷ 2 Given expression \Rightarrow 20 + 1 \triangleleft 4 + 3 5N5P5L5M5 = ?20 D 5 G 8 D 4 A 6 M 3 After changing the signs ? = 5 × 5 ÷ 5 + 5 - 5 \Rightarrow 20 ÷ 5 > 8 ÷ 4 + 6 × 3 or, ? = 5 + 5 - 5 = 5 \Rightarrow 4 \Rightarrow 2 + 18 20 D 4 A 4 L 4 A 2 M 3 + M ⇒ **11**. (1) N ⇒ × ΓP \Rightarrow 20 ÷ 4 + 4 < 4 + 2 × 3 \Rightarrow 5 + 4 < 4 + 6 **Given expression** 14 N 10 L 42 P 2 M 8 = ? 20 A 2 G 10 M 3 A 12 D 2 After changing the signs \Rightarrow 20 + 2 > 10 × 3 + 12 ÷ 2 ? = 14 × 10 + 42 ÷ 2 - 8 \Rightarrow 22 \Rightarrow 30 + 6 or, ? = 14 × 10 + 21 - 8 **16.** (3) $X \Rightarrow + Z \Rightarrow \div$ or, ? = 140 + 21 - 8 = 153 $Y \Rightarrow - | P \Rightarrow \times$ 12. (2) Option (1) 18 F 3 B 6 E 8 G 4 E 12 10 P 2 X 5 Y 5 = ? or, 18 < 3 + 6 × 8 - 4 × 12 \Rightarrow ? = 10 × 2 + 5 - 5 or, 18 < 3 + 48 - 48 \Rightarrow ? = 20 + 5 - 5 = or, 18 🛃 3 Option (2) **17.** (1) $P \Rightarrow + Q \Rightarrow x$ 18 C 3 G 6 B 8 4 D 12 $R \Rightarrow \div | S \Rightarrow$ or, $18 \div 3 - 6 + 8 + 4 = 12$ or, 6 - 6 + 12 = 1244 Q 9 R 12 S 6 Q 4 P 16 = ? or, 12 = 12 \Rightarrow ? = 44 × 9 - 12 - 6 × 4 + 16 Option (3) \Rightarrow ? = $44 \times \frac{3}{4} - 24 + 16$ 18 A 3 E 6 B 8 G 4 B 12 or, 18 > 3 × 6 + 8 - 4 + 12 or, 18 > 18 + 8 - 4 + 12 \Rightarrow ? = 33 - 24 + 16 = 25 or, 18 > 34 Option (4) **18.** (1) $| R \Rightarrow - | A \Rightarrow +$ 18 C 3 D 6 B 8 C 4 G 12 $B \Rightarrow \div | C \Rightarrow \times$ or, $18 \div 3 = 6 + 8 \div 4 - 12$ or, 6 = 6 + 2 - 1225 A 37 C 2 B 4 R 1 = ?

or, $6 \neq 4$

www.jkchrome.com

 $? = 62 \times 2 \div 4 + 1$ $\Rightarrow A < B = C$ **26.** (2) $|A \Rightarrow + |B \Rightarrow C \Rightarrow \times$ $? = 124 \div 4 + 1$ Option (1) B + C | A(10 C4) A (4C4) B6 = ? ? = 31 + 1 = 32 \Rightarrow ? = (10 × 4) + (4 × 4) - 6 \Rightarrow B > C < A Option (2) $P \Longrightarrow \div |$ $Q \Rightarrow \times$ \Rightarrow ? = 40 + 16 - 6 = 50 C - B + A**19**. (3) $R \Rightarrow +$ S⇒- $\Rightarrow C \ge B > A$ **27**. (3) <u>P</u> ⇒ + $\mathsf{Q} \Rightarrow$ Option (3) 12 O 15 P 3 R 4 S 6 = ? $R \Rightarrow \div$ $S \implies \times$ B|A|C \Rightarrow 12 × 15 ÷ 3 + 4 - 6 \Rightarrow B < A < C 18 S 36 R 12 Q 6 P \Rightarrow 12 × 5 + 4 - 6 Option (4) \Rightarrow ? = 18 × 36 ÷ 12 – 6 + 7 \Rightarrow 60 + 4 - 6 = | 58 A \oplus B | C \Rightarrow ? = 18 × 3 - 6 + 7 $\Rightarrow A \leq B < C$ \Rightarrow ? = 54 - 6 + 7 $+ \Rightarrow>$ $\times \Longrightarrow =$ $- \Longrightarrow \ge$ **24.** (3) $A \Longrightarrow B \Longrightarrow =$ C ⇒< \Rightarrow ? = 61 - 6 = 55 20. (*) $L \Rightarrow \neq$ $\Rightarrow <$ $\phi \Longrightarrow \leq$ $D \Longrightarrow \ge |E \Rightarrow \neq |$ F ⇒> **28.** (2) P ⇒ ÷ A – B ϕ C Q⇒× 2 M B N $\Rightarrow A > B < C$ $R \Rightarrow +$ S ⇒- \Rightarrow A > B < C or, A > B = C \Rightarrow 2 M = N \Rightarrow M = 18 Q 12 P 4 R 5 S 6 or, A = B = C or, A = B < C2 \Rightarrow 18 × 12 ÷ 4 + 5 - 6 Option (1) 2 N A 3K \Rightarrow 18 × 3 + 5 - 6 $A \mid B + C$ \Rightarrow 2 N \leq 3K \Rightarrow 4M \leq 3K \Rightarrow 54 + 5 - 6 = 53 \Rightarrow A < B > C : Not True Option (1) Option (2) **29**. (2) 2 M D 3K $A \Rightarrow +$ $B \Rightarrow x$ A | B | C \Rightarrow 2 M \geq 3K : Not True $C \Rightarrow \div \mid D \Rightarrow \Rightarrow$ A < B < C : Not True Option (2) Option (3) 9 A 2 B 6 D 4 C 2 = ? 2 M B 3 K A + B - C \Rightarrow ? = 9 + 2 × 6 - 4 ÷ 2 \Rightarrow 2 M = 3 K : Not True $\Rightarrow A > B > C$ \Rightarrow ? = 9 + 12 - 2 = 19 Option (3) $\Rightarrow A > B = C$ 2 M C 3 K **30.** (3) $D \Rightarrow \times S \Rightarrow +$ or, A > B > C⇒ 2 M < 3 K : True Option (4) $A \Rightarrow - | M \Rightarrow \div$ Option (4) A \oplus B | C 2 K B 3 N 28 D 6 S 34 M 2 A 8 D 6 $\Rightarrow A \leq B < C$ \Rightarrow 2 K = 3 N : Not True \Rightarrow 28 × 6 + 34 ÷ 2 - 8 × 6 $\Rightarrow A < B < C$ 25. (*) ⇒ 168 + 17 - 48 or, A = B < C⇒ 185 - 48 = 137 Both the options (3) and (4) may $B \Rightarrow + |$ $G \Rightarrow E \implies \times$ $C \Rightarrow \div$ be true. **31**. (2) $A \Rightarrow + B \Rightarrow -$ D⇒= A ⇒> F ⇒< $A \Rightarrow +$ Q $C \Rightarrow \times$ Option (1) 21. (*) $\Rightarrow \times R$ (10 C 4) A (4 C 4) B 6 = ?15 C 3 B 2 A 6 E 2 \Rightarrow ? = (10 × 4) + (4 × 4) - 6 \Rightarrow 15 ÷ 3 + 2 > 6 × 2 225 R 5 A 64 Q 13V6 = ? \Rightarrow ? = 40 + 16 - 6 = 50 \Rightarrow 5 + 2 \Rightarrow 12 225 ÷ 5 + 64 - 13 × 6 Option (2) **32.** (2) $a \Rightarrow \times b \Rightarrow \div$ 45 + 64 - 78 = 31 15 B 2 G 5 A 4 G 4 $C \Longrightarrow +$ $d \Rightarrow -$ ⇒ 15 + 2 **-** 5 > 4 **-** 4 $P \Longrightarrow \times$ $T \Rightarrow -$ 8 a 3 c 24 b 12 d 19 = ? ⇒ 12 > 0 **22**. (3) $M \Rightarrow +$ $B \Rightarrow \div$ \Rightarrow ? = 8 × 3 + 24 ÷ 12 - 19 Option (3) \Rightarrow ? = 24 + 2 - 19 = 7 15 C 3 B 2 D 6 B 1 12 P 6 M 1 5 T 16 B 4 = ? \Rightarrow 15 ÷ 3 + 2 = 6 + 1 \Rightarrow ? = 12 × 6 + 15 - 16 ÷ 4 **33.** (4) $\mid A \Rightarrow - \mid C \Rightarrow \times$ \Rightarrow 5 + 2 = 7 $D \Rightarrow \div | E \Rightarrow +$ \Rightarrow ? = 72 + 15 - 4 = 83 Option (4) 15 B 3 D 4 E 6 14 C 3 A 12 E 4 D 2 = ? **23**. (2) + ⇒> $\phi \Longrightarrow \le$ - ⇒≥ \Rightarrow 15 + 3 = 4 × 6 \Rightarrow ? = 14 × 3 - 12 + 4 ÷ 2 $\times \Longrightarrow =$ |⇒< L⇒≠ \Rightarrow 18 \neq 24 \Rightarrow ? = 42 - 12 + 2 Both options (2) and (3) are cor- $A | B \times C$ ⇒ ? = 44 - 12 = 32 rect.

| 34. (2) $A \Rightarrow + B \Rightarrow -$ $C \Rightarrow \times D \Rightarrow \div$ Option (1) $8 B 6 D 2 A 4 C 3 = 15$ $\Rightarrow 8 - 6 \div 2 + 4 \times 3 = 15$ $\Rightarrow 8 - 3 + 4 \times 3 = 15$ $\Rightarrow 8 - 3 + 12 = 15$ | 39. (1) $\begin{array}{c c} K \Rightarrow - L \Rightarrow \div \\ \hline M \Rightarrow + D \Rightarrow \times \end{array}$ 96 L 4 K 6 M 11 D 9 = ? \Rightarrow ? = 96 \div 4 - 6 \div 11 \times 9 \Rightarrow ? = 24 - 6 \div 99 \Rightarrow ? = 123 - 6 = 117 | 3. (1) M A S T E R $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ # ∇ H \$ % @ 4. (4) & is the brother of \neq . \neq is the daughter of @. # is the brother of @. Therefore, # is the uncle of &. 5. (*) - \Rightarrow not less than | | |
|--|---|--|--|--|
| $\Rightarrow 20 - 3 \neq 15$ | TYPE-L (iv) | It means > | | |
| Option (2) 8 A 8 B 8 C 8 = - 48 \Rightarrow 8 + 8 - 8 × 8 = - 48 \Rightarrow 16 - 64 = - 48 Option (3) 9 C 9 B 9 D 9 A 9 = 17 \Rightarrow 9 × 9 - 9 ÷ 9 + 9 = 17 \Rightarrow 81 - 1 + 9 = 17 \Rightarrow 90 - 1 ≠ 17 Option (4) 3 A 3 B 3 C 3 A 3 D 3 = 4 \Rightarrow 3 + 3 - 3 × 3 + 3 ÷ 3 = 4 \Rightarrow 3 + 3 - 9 + 1 = 4 \Rightarrow 7 - 9 ≠ 4 35. (2) $P \Rightarrow \times T \Rightarrow -$ M $\Rightarrow + B \Rightarrow +$ 28 B 7 P 8 T 6 M 4 = ? \Rightarrow ? = 28 ÷ 7 × 8 - 6 + 4 \Rightarrow ? = 4 × 8 - 6 + 4 \Rightarrow ? = 32 - 6 + 4 = 30 36. (4) $L \Rightarrow \times M \Rightarrow +$ P $\Rightarrow + Q \Rightarrow -$ 16 P 24 M 8 Q 6 M 2 L 3 \Rightarrow 16 + 3 - 9 = 10 | TYPE-I (iv) 1. (2) $\frac{X \Rightarrow + V \Rightarrow - U \Rightarrow = \sigma \Rightarrow <}{\land \Rightarrow \div \Sigma \Rightarrow \times \sigma \Rightarrow >}$ Option (1) $3 \times 8 \vee 2 \cup 12 \land 3$ $\Rightarrow 13 + 8 - 2 = 12 \div 3$ $\Rightarrow 9 \neq 4$ Option (2) $13 \vee 12 \times 9 \vee 2 \circ 5 \Sigma 1$ $\Rightarrow 13 - 12 + 9 - 2 > 5 \times 1$ $\Rightarrow 8 > 5$ Option (3) $2 \Sigma 3 \Sigma 4 \sigma 5 1 \land 3$ $\Rightarrow 24 \neq 17$ Option (4) $3 \Sigma 2 \Sigma 4 \cup 2 \times 7 \vee 3$ $\Rightarrow 3 \times 2 \Rightarrow 4 = 2 + 7 - 3$ $\Rightarrow 24 \neq 6$ 2. (4) $\frac{+ \Rightarrow \delta - \Rightarrow \bullet \times \Rightarrow \gamma + \Rightarrow \pi}{= \Rightarrow \omega \Rightarrow \beta < \Rightarrow \alpha}$ Option (1) $3 \gamma 6 \eta 2 \delta 8 + \omega 5$ $\Rightarrow 3 \times 6 \div 2 + 8 - 4 = 5$ $\Rightarrow 3 \times 3 + 8 - 4 = 5$ | $\begin{array}{l} \text{X - Y - Z} \\ \Rightarrow X \ge Y \ge Z \\ \Rightarrow X > Y > Z \\ \text{or, } X > Y = Z \\ \text{or, } X > Y = Z \\ \text{or, } X = Y = Z \\ \text{Option (1)} \\ \text{X } \otimes Y \ \Delta Z \\ \Rightarrow X > Y \ \text{or, } X < Y \ ; Y = Z \\ \text{Option (2)} \\ \text{X } O \ Y + Z \\ \Rightarrow X \le Y > Z \\ \text{Option (3)} \\ \text{X } \ \emptyset \ Y - Z \\ \Rightarrow X < Y > Z \\ \text{Option (4)} \\ \text{X } \ \emptyset \ Y + Z \\ \Rightarrow X < Y > Z \\ \text{Option (4)} \\ \text{X } \ \emptyset \ Y + Z \\ \Rightarrow X < Y > Z \\ \text{6. (4) } \{(13 \ \% \ 5) \ \$ \ 6\} \ \# \ 15 \\ \Rightarrow \{(5^2 - 13^2) + 6^2\} \times 2 \times 15 \\ \Rightarrow \{(25 - 169) \div 36\} \times 30 \\ \Rightarrow -4 \times 30 = -120 \\ \text{7. (1)} \hline \hline{(0) \Rightarrow + (0) \Rightarrow -1} \\ \alpha \Rightarrow + (0) \Rightarrow \times \\ 107 \ \ominus \ 3 \ \oplus \ 64 \ \alpha \ 8 \ \oplus \ 2 \ \ominus \ 9 = ? \\ \Rightarrow ? = 107 \times 3 - 64 \div 8 - 2 \times 9 \\ \Rightarrow ? = 321 - 8 - 18 \\ \Rightarrow ? = 321 - 26 = 295 \\ \text{8. (*)} \ 324 \ \oplus \ 289 \end{array}$ | | |
| 37. (1) $ \begin{array}{c} L \Rightarrow + M \Rightarrow -\\ N \Rightarrow \times P \Rightarrow \div \end{array} $ 14 N 10 L 42 P 2 M 8 = ?⇒ ? = 14 × 10 + 42 ÷ 2 - 8 ⇒ ? = 140 + 21 - 8 | $\Rightarrow 17 - 4 \neq 5$ Option (2) $3 \eta 6 \gamma 2 \delta 8 4 \beta 5$ $\Rightarrow 3 \div 6 \times 2 + 8 - 4 > 5$ $\Rightarrow \frac{3}{6} \times 2 + 8 - 4 > 5$ | $\Rightarrow \sqrt{324} + \sqrt{289}$ $\Rightarrow 18 + 17 = 35$ $441 \oplus 484$ $\Rightarrow \sqrt{441} + \sqrt{484}$ $\Rightarrow 21 + 22 = 43$ Therefore (25 \oplus 400) | | |
| $\Rightarrow ? = 161 - 8 = \boxed{153}$ 38. (1) $\boxed{P \Rightarrow \div \ Q \Rightarrow \times}$ $\boxed{R \Rightarrow + \ S \Rightarrow -}$ $18 \ Q \ 12 \ P \ 4 \ R \ 5 \ S \ 6 = ?$ $\Rightarrow ? = 18 \times 12 \div 4 + 5 - 6$ $\Rightarrow ? = 18 \times 3 + 5 - 6$ $\Rightarrow ? = 54 + 5 - 6 = \boxed{53}$ | $\Rightarrow 1 + 8 - 4 \Rightarrow 5$ Option (3) $3 \gamma 6 2 \delta 8 \eta 4 \propto 5$ $\Rightarrow 3 \times 6 - 2 + 8 \div 4 < 5$ $\Rightarrow 3 \times 6 - 2 + 2 < 5$ $\Rightarrow 18 - 2 + 2 < 5$ Option (4) $3 \delta 6 2 \gamma 8 \eta 4 \omega 5$ $\Rightarrow 3 + 6 - 2 \times 8 \div 4 = 5$ $\Rightarrow 3 + 6 - 2 \times 2 = 5$ $\Rightarrow 9 - 4 = 5$ | Therefore, $625 \oplus 400$ $\Rightarrow \sqrt{625} + \sqrt{400}$ $\Rightarrow 25 + 20 = 45$ 9. (4) $\boxed{\# \Rightarrow - \& \Rightarrow \div}$ $\boxed{@ \Rightarrow + \% \Rightarrow \times}$ 217 & 7 # 3 @ 2 % 7 = ? $\Rightarrow ? = 217 \div 7 - 3 + 2 \times 7$ $\Rightarrow ? = 31 - 3 + 14$ $\Rightarrow ? = 45 - 3 = \boxed{42}$ | | |

TYPE-I (v)

1. (1) (□ × △) ÷ ◇ = ? \Rightarrow ? = (8 × 3) ÷ 4 \Rightarrow ? = 24 ÷ 4 = 6 \Rightarrow \bigcirc 017 **2.** (2) (/ +) ÷ O = ? $= (15 + 12) \div 3 = 27 \div 3 = 9$ **3.** (1) $(12 \times 4) \div 6 = ?$ or, $? = \frac{48}{6} = 8$ **4.** (3) \land + \bigcirc - \square = ? ? = 15 + 3 - 12or, ? = 18 - 12 = 6 = 🗌 5. (1) — ÷ — = ? or, 12 ÷ 4 = 3 ⇒ () 6. (3) Rectangle + Square Triangle $\Rightarrow \frac{12+6}{15} = \frac{18}{15} = \frac{6}{5}$ 7. (3) [] ∩ ∪ (] $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ 4 5 9 0 6 8. (2) 24 **A** 4 **A** 5 **A** 4 \Rightarrow 24 = 4 × 5 + 4 9. (4) □ ○ ₩ △ | $\Box \cup \cup \land \Box$ $\square \cap W$ 10. (4) $\# \Rightarrow < \bigcirc \Rightarrow >$ a () b # c [] d $\Rightarrow a > b < c = d$ Option (1) $a \sqcap c \Rightarrow a = c$: Not True Option (2) $b \bigcirc d \Rightarrow b > d$: Not True Option (3) $b \square d \Rightarrow b = d : Not True$ Option (4) $b \# d \Rightarrow b < d$: True **11.** (1) $* \Rightarrow - \Rightarrow \div$ $\square \Rightarrow +$ $\% \Rightarrow x$ $13 \square 3 * 6 \% 8 - 4 \square 14 = ?$ \Rightarrow ? = 13 + 3 - 6 × 8 ÷ 4 + 14 \Rightarrow ? = 13 + 3 - 6 × 2 + 14 \Rightarrow ? = 13 + 3 - 12 + 14 ⇒? = 30 - 12 = 18

TYPE-I (vi) 1. (4) Option (1) $6 > 3 < 2 \land 4 \lor 8 - 13$ or, 6 ÷ 3 + 2 - 4 × 8 > 13 or, 2 + 2 - 32 > 13 or. - 28 ≯ 13 Option (2) $6 \land 3 < 2 > 4 \lor 8 + 13$ or, $6 - 3 + 2 \div 4 \times 8 = 13$ or, $6 - 3 + \frac{2}{4} \times 8 = 13$ or, $6 - 3 + 4 \neq 13$ Option (3) $6 \lor 3 \land 2 > 4 < 8 \times 13$ or, 6 × 3 - 2 ÷ 4 + 8 < 13 or, $6 \times 3 - \frac{2}{4} + 8 < 13$ or, $18 - \frac{2}{4} + 8 < 13$ or, $\frac{72-2+32}{4} \neq 1$ Option (4)

6 × 3 > 2 < 4 ∧ 8 × 13 or, 6 × 3 ÷ 2 + 4 - 8 < 13 or, $\frac{6 \times 3}{2} + 4 - 8 < 13$ or, 9 + 4 - 8 < 13 2. (4) Option (1) 6 > 2 > 3 ^ 8 V 4 + 13 \Rightarrow 6 + 2 \div 3 - 8 \times 4 = 13 $\Rightarrow 6 + \frac{2}{3} - 32 \neq 13$ Option (2) 6 ^ 2 < 3 > 8 < 4 - 13 \Rightarrow 6 - 2 + 3 \div 8 + 4 > 13 $\Rightarrow 6 - 2 + \frac{3}{8} + 4 > 13$ $\Rightarrow \frac{48-16+3+32}{8} > 13$ $\Rightarrow \frac{67}{8} > 13$ Option (3) 6 V 2 < 3 ^ 8 > 4 × 13 \Rightarrow 6 × 2 + 3 - 8 ÷ 4 < 13 ⇒ 12 + 3 - 2 < 13 ⇒ 13 ≮ 13 Option (4) 6 > 2 V 3 < 8 ^ 4 + 13 \Rightarrow 6 ÷ 2 × 3 + 8 - 4 = 13 \Rightarrow 3 × 3 + 8 - 4 = 13 \Rightarrow 9 + 8 - 4 = 13

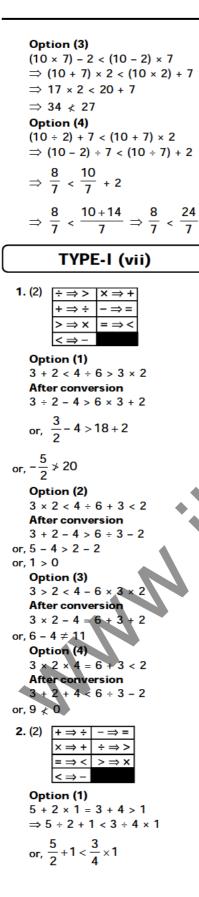
 $\times \Rightarrow +$ + ⇒ ÷ - ⇒ = $\Rightarrow \Rightarrow \times$ = -> < <⇒-Option (1) 5 > 2 < 1 - 3 × 4 × 1 or, $5 \times 2 - 1 = 3 + 4 + 4$ or, 9 ≠ 8 Option (2) $5 < 2 \times 1 + 3 > 4 \times 1$ or, 5 - 2 + 1 > 3 × 4 + 1 or, 4 > 13 Option (3) 5 > 2 × 1 - 3 > 4 < 1 or, $5 \times 2 + 1 = 3 \times 4 - 1$ or, 11 = 11 Option (4) 5 + 2 × 1 = 3 + 4 > 1 or, 5 ÷ 2 + 1 < 3 ÷ 4 ×1 or, $\frac{5}{2} + 1 < \frac{3}{4}$ or, $\frac{7}{2} < \frac{3}{4}$ 4. (*) $+ \Rightarrow \div > \Rightarrow \times$ $x \Rightarrow +$ <⇒-÷⇒> - ⇒= =⇒< Option (1) $5 > 8 + 4 = 10 < 4 \times 8$ \Rightarrow 5 × 8 ÷ 4 < 10 - 4 + 8 \Rightarrow 5 × 2 < 18 – 4 \Rightarrow 10 < 14 Option (2) $3 \times 4 > 2 - 9 + 3 < 3$ \Rightarrow 3 + 4 × 2 = 9 ÷ 3 - 3 \Rightarrow 3 + 8 \neq 3 - 3 Option (3) $5 \times 3 < 3 \div 8 + 4 \times 1$ \Rightarrow 5 + 3 - 3 > 8 ÷ 4 + 1 \Rightarrow 8 - 3 > 2 + 1 \Rightarrow 5 > 3 Option (4) $3 \times 2 < 4 \div 16 > 2 \times 4$ \Rightarrow 3 + 2 - 4 > 16 × 2 ÷ 4 \Rightarrow 5 - 4 > $\frac{16 \times 2}{4}$ \Rightarrow 1 \Rightarrow 8 Both options (1) and (3) are correct. **5**. (3) $+ \Rightarrow \times$ <⇒ ÷ ÷⇒-- ⇒ + | × ⇒> Option (1) $20 - 4 \div 4 + 8 < 2 \times 26$ \Rightarrow 20 + 4 - 4 × 8 ÷ 2 > 26 \Rightarrow 20 + 4 - 4 × 4 > 26

⇒ 24 - 16 ≯ 26

Option (2) 20 × 8 + 15 < 5 ÷ 9 - 8 \Rightarrow 20 > 8 × 15 ÷ 5 – 9 + 8 $\Rightarrow 20 > 8 \times 3 - 9 + 8$ $\Rightarrow 20 > 24 - 9 + 8$ $\Rightarrow 20 \neq 23$ Option (3) 20 <2 + 10 ÷ 4 - 6 × 100 \Rightarrow 20 ÷ 2 × 10 – 4 + 6 > 100 \Rightarrow 10 × 10 - 4 + 6 > 100 \Rightarrow 100 - 4 + 6 > 100 ⇒ 106 - 4 > 100 Option (4) $20 < 5 + 25 \div 10 - 2 \times 96$ \Rightarrow 20 ÷ 5 × 25 – 10 + 2 > 96 \Rightarrow 4 × 25 – 10 + 2 > 96 \Rightarrow 100 - 10 + 2 > 96 \Rightarrow 102 - 10 \neq 96 **6**. (1) \Rightarrow = $+ \Rightarrow \times \Longrightarrow =$ -⇒> $> \Rightarrow +$ $< \Rightarrow \times$ $\div \Rightarrow <$ Option (1) $4 < 2 + 5 + 8 \times 5$ \Rightarrow 4 × 2 – 5 – 8 = 5 \Rightarrow 8 - 5 - 8 \neq 5 Option (2) $4 = 2 + 5 > 8 \times 5$ \Rightarrow 4 ÷ 2 – 5 + 8 = 5 \Rightarrow 2 - 5 + 8 = 5 Option (3) $4 < 2 > 5 + 8 \times 5$ \Rightarrow 4 × 2 + 5 - 8 = 5 \Rightarrow 8 + 5 - 8 = 5 Option (4) 4 > 2 < 5 + 8 - 5 \Rightarrow 4 + 2 × 5 - 8 > 5 \Rightarrow 4 + 10 - 8 > 5 \Rightarrow 14 - 8 > 5 $\Rightarrow 6 > 5$ 7. (2) $^{\wedge} \Rightarrow \times$ > ⇒ + $\Rightarrow \div$ -⇒ =⇒ < Option (1) 13 > 7 < 6 + 2 = 3 ^ 4 \Rightarrow 13 + 7 - 6 ÷ 2 < 3 × 4 ⇒ 13 + 7 - 3 < 12 \Rightarrow 20 - 3 \checkmark 12 Option (2) 9 > 5 > 4 - 18 + 9 > 16 \Rightarrow 9 + 5 + 4 = 18 ÷ 9 + 16 \Rightarrow 18 = 2 + 16 Option (3) 9 < 3 < 2 > 1 × 8 ^ 2 \Rightarrow 9 - 3 - 2 + 1 > 8 × 2 \Rightarrow 5 \Rightarrow 16

Option (4) 28 + 4 ^ 2 = 6 ^ 4 + 2 \Rightarrow 28 ÷ 4 × 2 < 6 × 4 ÷ 2 \Rightarrow 7 × 2 \leq 6 × 2 **8.** (4) $x \angle y + z$ $x \neq y > z$ $\Rightarrow x > y > z$ or x < y > zOption (1) $x \times y \mid z$ \Rightarrow x = y < z : Not true Option (2) $x - y \times z$ $\Rightarrow x \not< y = z$: Not true Option (3) $x \angle y \phi z$ $\Rightarrow x \neq y \neq z$: Not true Option (4) $x - y \angle z$ $\Rightarrow x \not< y \neq z$ $\Rightarrow x > y > z$ or, x > y < zor, x = y > zor, x = y < zOption (4) may be true **9**. (4) A ⇒ < ⇒≥ B $4Y F 3X \implies 4Y = 3X$ $3X F 6Z \implies 3X = 6Z$ $X = \frac{4Y}{3} = 2Z$ $Y = \frac{3}{4}X$ $\frac{4}{3}$ Y = 2Z \Rightarrow Z = $\frac{2}{3}$ Y Option (1) 2Y D 3Z $\Rightarrow 2Y > 3Z$ $\Rightarrow 2Y > 3 \times \frac{2}{2}Y$ \Rightarrow 2Y \Rightarrow 2Y Option (2) 2Y < 3Z ⇒ 2Y < 3Z $\Rightarrow 2Y < 3 \times \frac{2}{2}Y$ ⇒2Y ≮ 2Y

Option (3) 4Y B 5Z \Rightarrow 4Y > 5Z or 4Y < 5Z $\Rightarrow 4Y > 5 \times \frac{2}{3}Y$ or $4Y < 5 \times$ $\Rightarrow 4Y >$ Y or Option (4) 2Y F 3Z $\Rightarrow 2Y = 3Z$ $\frac{2}{3}$ Y $\Rightarrow 2Y = 3 \times$ 2Y = 2Y10. (2) $+ \implies \div$ $- \Rightarrow =$ $x \Rightarrow +$ $\Rightarrow \Rightarrow >$ $\Rightarrow <$ $> \Rightarrow \times$ $\langle \Rightarrow -$ Option (1) $5 \div 2 \times 1 = 3 + 4 > 1$ \Rightarrow 5 > 2 + 1 < 3 ÷ 4 × 1 \Rightarrow 5 > 3 < $\frac{3}{4}$ Option (2) $5 > 2 \times 1 - 3 > 4 < 1$ \Rightarrow 5 × 2 + 1 = 3 × 4 - 1 ⇒ 11 = 11 **11**. (1) $+ \Rightarrow \Rightarrow \Rightarrow +$ $\langle \Rightarrow \times$ $> \Rightarrow \div$ $9 \div 7 < 8 > (4 > 2) + 5$ \Rightarrow 9 + 7 × 8 ÷ (4 ÷ 2) - 5 \Rightarrow 9 + 7 × 8 ÷ 2 - 5 \Rightarrow 9 + 7 × 4 - 5 \Rightarrow 9 + 28 - 5 = 32 **12**. (3) $+ \Rightarrow \div$ $- \Rightarrow \times$ $\div \Rightarrow$ – $\times \Rightarrow +$ <⇒< Option (1) $(10 + 2) \div 7 < (10 \div 7) + 2$ \Rightarrow (10 ÷ 2) – 7 < (10 – 7) ÷ 2 \Rightarrow 5 - 7 < 3 ÷ 2 ⇒ - 2 < Option (2) $(10 - 7) \times 2 < (10 \times 2) - 7$ \Rightarrow (10 × 7) + 2 < (10 + 2) × 7 \Rightarrow 70 + 2 < 12 × 7 ⇒ 72 < 84



or, $\frac{5+2}{2} < \frac{3}{4}$ or, $\frac{7}{2} < \frac{3}{4}$: Wrong Option (2) 5 > 2 × 1 - 3 > 4 < 1 \Rightarrow 5 × 2 + 1 = 3 × 4 - 1 or, 11 = 11 **3.** (1) $2^{-}5 - 6 \otimes 2 / 6$ \Rightarrow 2 × 5 - 6 + 2 = 6 \Rightarrow 10 - 6 + 2 = 6 **4.** (2) $8 + 8 \Rightarrow 8 \times 8 + 8 = 72$ $5 + 5 \Rightarrow 5 \times 5 + 5 = 30$ $7 + 7 \Rightarrow 7 \times 7 + 7 = 56$ $6+6 \Rightarrow 6 \times 6 + 6 = 42$ **5.** (1) $3 \div 5 \Rightarrow 3 \times 5 = 1$ 5 $4 \div 7 \Rightarrow 4 \times 7 = 2$ $8 \div 7 \Rightarrow 8 \times 7 = 5$ 6 Therefore, $9 \div 6 \Rightarrow 9 \times 6 = 5$ 6. (2) 8 × 2 = 16 ⇒ 61 $\times 5 = 40 \Rightarrow 04$ 10 = 80 ⇒ 08 7. (2) Therefore Ε Ν ↓ 8. (3) 5 5 9 + 0 9 0 6 Therefore, Ŕ 4 + 3 3 8 Δ 9. (2) 4

Therefore,
Therefore,
Therefore,

$$3 - 0 - 4 - 8 + 4 = 0$$

 $3 - 255 = 312$
Similarly,
 $946 + 312 = 634$ second
 $11 \cdot (2) + 4 = 9$
 $\Rightarrow 1 + (4 \times 2) = 9$
 $2 + 8 = 18$
 $\Rightarrow 2 + (8 \times 2) = 18$
 $3 + 6 = 15$
 $\Rightarrow 3 + (6 \times 2) = 15$
Similarly,
 $7 + 8 \Rightarrow 7 + (8 \times 2)$
 $\Rightarrow 7 + 16 = 23$
 $12. (2) 4 \times 5 = 42$
 $\Rightarrow (4 + 2) \times (5 + 2) = 42$
 $\Rightarrow 6 \times 7 = 42$
 $5 \times 6 = 56$
 $\Rightarrow (5 + 2) \times (6 + 2) = 56$
 $\Rightarrow 7 \times 8 = 56$
 $6 \times 7 = 72$
 $\Rightarrow (6 + 2) \times (7 + 2) = 72$
 $\Rightarrow 8 \times 9 = 72$
Similarly,
 7×8
 $\Rightarrow (7 + 2) \times (8 + 2)$
 $\Rightarrow 9 \times 10 = 90$
 $13. (2) 58 \times 12 = 4$
 $\Rightarrow (5 + 8) + (1 + 2) \Rightarrow 4$
 $\Rightarrow 13 + 3 \Rightarrow 4 \Rightarrow \sqrt{16} = 4$
 $37 \times 96 = 5$
 $\Rightarrow (3 + 7) + (9 + 6) \Rightarrow 5$
 $\Rightarrow 10 + 15 \Rightarrow 5 \Rightarrow \sqrt{25} = 5$
 $11 \times 20 = 2$
 $\Rightarrow (1 + 1) + (2 + 0) \Rightarrow 2$
 $\Rightarrow 2 + 2 \Rightarrow 2$
 $\Rightarrow \sqrt{4} = 2$
 42×12
 $\Rightarrow (4 + 2) + (1 + 2)$
 $6 + 3 = 9$
 $\Rightarrow \sqrt{9} = 3$

⇒ 77 – 18 = 59

 $59 \Rightarrow -59$

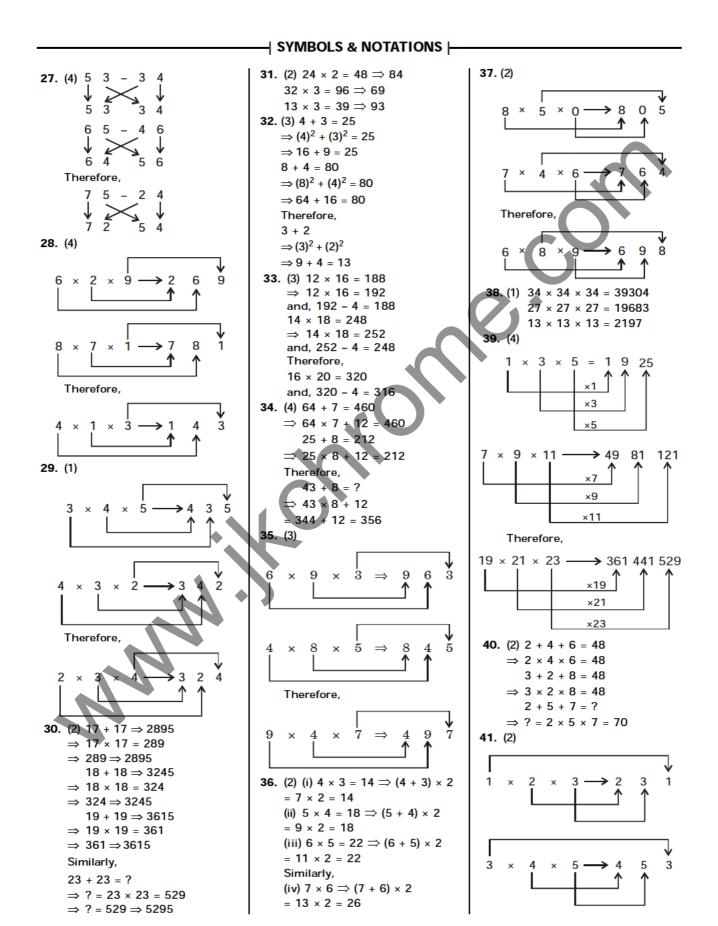
- SYMBOLS & NOTATIONS

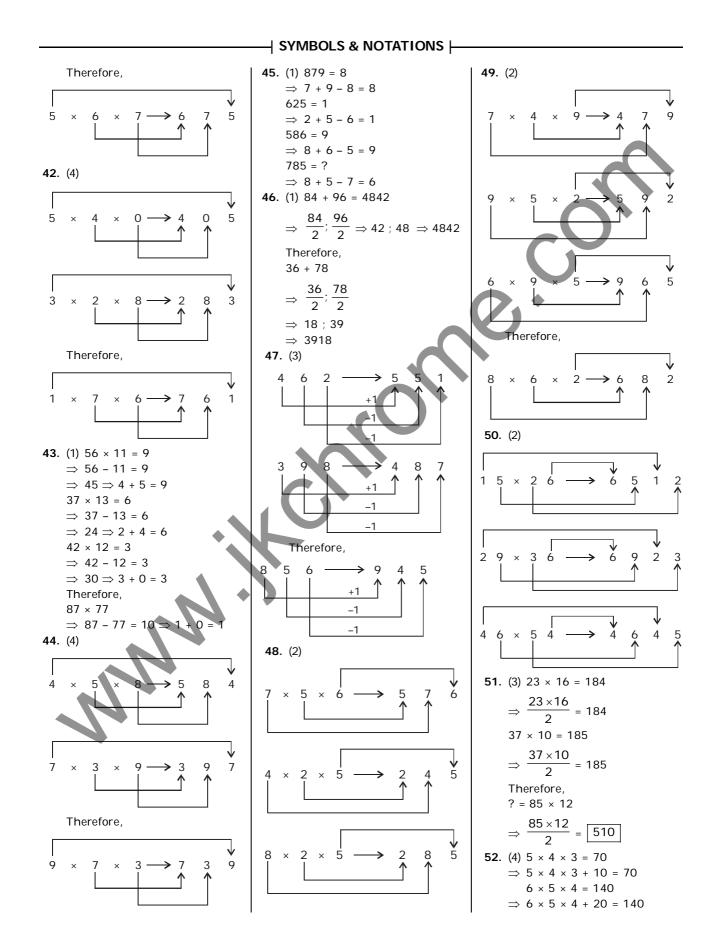
 \Rightarrow ? = 63 - (10 + 2)

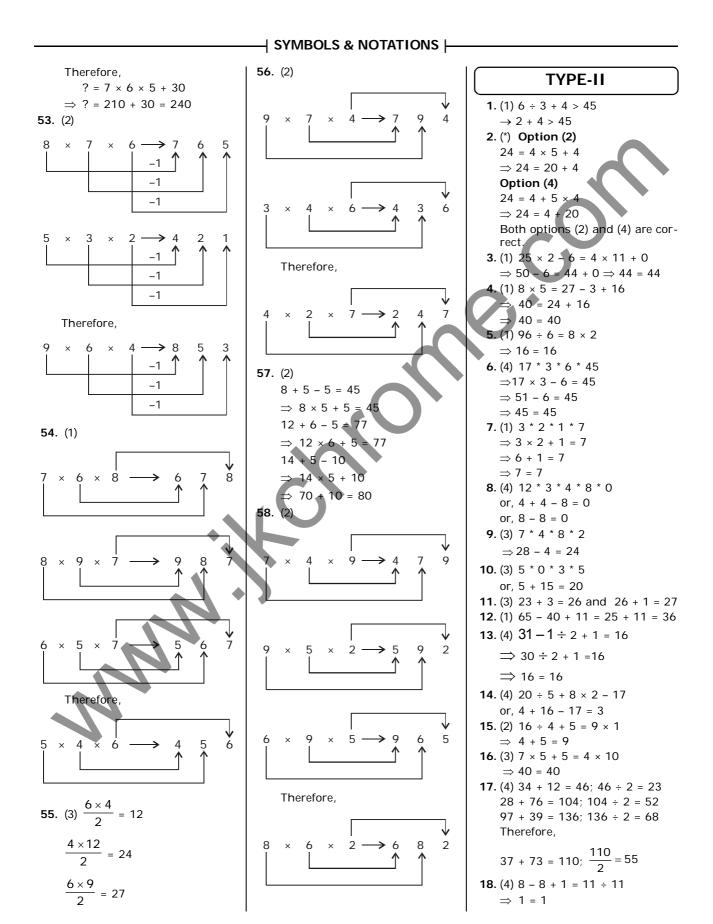
⇒? = 63 – 12 = 51

14. (4) 5 × 8 = 28 19. (2) **23**. (4) $0 \Rightarrow a$ \Rightarrow 5 × 8 = 40 $1 \Rightarrow b$ $2 \times 3 \times 4$ 2 > 4 3 \Rightarrow 5 + 8 = 13; 13 - 1 = 12 $2 \Rightarrow c$ \Rightarrow 40 - 12 = 28 $3 \Rightarrow d$ $3 \times 7 = 12$ $9 \Rightarrow j$ \Rightarrow 3 × 7 = 21 $dc \times f - (bf - d) \times d$ \Rightarrow 3 + 7 = 10, 10 - 1 = 9 \Rightarrow 32 × 5 – (15 – 3) × 3 \Rightarrow 21 – 9 = 12 $5 \times 6 \times 7 -$ > 7 6 5 \Rightarrow 160 – (12) × 3 $8 \times 6 = 35$ \Rightarrow 160 - 36 = 124 \Rightarrow bee \Rightarrow 8 × 6 = 48 **24**. (3) 29 × 13 = 14 \Rightarrow 8 + 6 = 14; 14 - 1 = 13 ⇒ 29 <u>+</u> 13 = 42 ⇒ 48 – 13 = 35 $13 \times 13 = ?$ ⇒ 13 × 13 = 169 - 1 \Rightarrow 7 × 8 × 9-> 9 8 7 \Rightarrow 13 + 13 = 26; 26 - 1 = 25 $76 \times 26 = 34$ \Rightarrow 169 - 25 = 144 76 + 26 = 34**15.** (1) $2 \times 4 \times 6 = 4$ $\Rightarrow 6 - 4 = 2; 2 + 2 = 4$ 102 = 34 Third Number - Second Number Similarly, 3 + First Number = Result 2 × 5 × 7-→17 Therefore, $9 \times 3 \times 7 = 13$ 64×14 \Rightarrow 7 - 3 + 9 = 16 - 3 = 13 \Rightarrow 64 + 14 = 78 $4 \times 7 \times 6 = 3$ $\Rightarrow 6 - 7 + 4 = 3$ $\Rightarrow \frac{78}{3} = 26$ \Rightarrow 10 - 7 = 3 **20**. (2) 2 × 16 = 8 $9 \times 7 \times 8$ 25. (2) \Rightarrow 8 - 7 + 9 ⇒ 17 – 7 = 10 5×2 **16.** (1) $3 \times 5 \times 7 \times 2 = 24$ Δ × \Rightarrow 3 × 5 + 7 + 2 = 24 \Rightarrow 15 + 9 = 24 $2 \times 4 \times 6 \times 8 = 22$ 6 × 12 = 2 \Rightarrow 2 × 4 + 6 + 8 = 22 3 3 8 + 14 = 2212 = 2 $4 \times 4 \times 8 \times 9 = ?$ ⇒ 6 \Rightarrow ? = 4 × 4 + 8 + 9 Therefore, \Rightarrow ? = 16 + 17 = 33 **17**. (3) 7 × 8 = 49 $12 \times 144 = ?$ \Rightarrow 7 × 8 – 7 = 56 – 7 \Rightarrow ? = $\frac{144}{12}$ = 12 $4 \times 4 = 12$ \Rightarrow 4 × 4 - 4 = 16 - 4 = Therefore, **21**. (2) 10 – 3 = 12 6 × 4 = 18 \Rightarrow 6 × 4 - 6 = 24 - 6 = 18 \Rightarrow 10 - 3 = 7 and 7 + 5 = 12 9 Δ 9 × 5 Similarly, 12 - 4 = 13 $9 \times 6 = ?$ $\Rightarrow ? = 9 \times 6 - 9$ \Rightarrow 12 - 4 = 8 and 8 + 5 = 13 14 - 5 = 14= 54 - 9 = 45 **26**. (1) 98 - 39 - 27 = 31 \Rightarrow 14 - 5 = 9 and 9 + 5 = 14 \Rightarrow (9 × 8) – (3 × 9 + 2 × 7) = 31 **18**. (1) 5 • 3 = - 7 \Rightarrow (5 × 3) – (5 + 3) Similarly, \Rightarrow 72 - (27 +14) = 31 ⇒ 15 – 8 = 7 ⇒ 72 - 41 = 31 16 - 6 = ? $7 \Rightarrow -7$ 87 - 38 - 34 = 20 \Rightarrow 16 - 6 = 10 and 10 + 5 = 15 3 () 7 = - 1 \Rightarrow (8 × 7) – (3 × 8 + 3 × 4) = 20 \Rightarrow (3 × 7) – (3 + 7) **22**. (4) Box – 1 ⇒ 5 \Rightarrow 56 - (24 + 12) = 20 ⇒ 21 – 10 = 11 \Rightarrow 56 - 36 = 20 $11 \Rightarrow -11$ Box – 2 \Rightarrow 7 79 - 25 - 12 = ? 7 011 \Rightarrow ? = (7 × 9) - (2 × 5 + 1 × 2) 5 - 1 = 4 and 7 + 1 = 8 \Rightarrow (7 × 11) – (7 + 11)

5 + 1 = 6 and 7 - 1 = 6







 $\frac{870}{3} = 290$

Similarly,

2 + 9 + 0 = 11

19. (3) $16 \div 4 \times 5 = 14 + 6$ \Rightarrow 4 × 5 = 20 **20.** (2) 7 + 7 - 2 × 1 = 12 \Rightarrow 7 + 7 - 2 = 12 9 - 7 = 2**21.** (4) 9 + 7 = 16; $16 \times 2 = 32$ 13 – 7 = 6 13 + 7 = 20; $20 \times 6 = 120$ 17 + 9 = 26;17 - 9 = 8 $26 \times 8 = 208$ 19 + 11 = 30;19 - 11 = 8 $30 \times 8 = 240$ **22.** (4) 8 × 5 – 9 = 31 \Rightarrow 40 - 9 = 31 **23.** (2) $4 \times 6 - 6 + 2 = 20$ \Rightarrow 24 - 6 + 2 = 20 $\Rightarrow 26 - 6 = 20$ **24**. (4) 8 5 2 72 4 \Rightarrow 8 + 5 × 2 = 72 ÷ 4 \Rightarrow 8 + 10 = 18 **25.** (2) $15 \times 3 - 5 = 20 \times 2$ \Rightarrow 45 - 5 = 40 **26.** (2) $2 \times 3 - 2 + 4 = 8$ \Rightarrow 6 - 2 + 4 = 8 **27.** (4) $16 - 2 - 24 \div 3 = 6$ \Rightarrow 16 - 2 - 8 = 6 ⇒ 16 - 10 = 6 **28.** (4) $16 - 4 \times 3 \div 4 = 13$ \Rightarrow 16 - 3 = 13 **29.** (3) 6 * 15 * 10 * 3 * 12 \Rightarrow 6 × 15 ÷ 10 + 3 = 12 \Rightarrow 9 + 3 = 12 **30.** (2) 18 × 6 ÷ 3 – 12 = 24 \Rightarrow 18 × 2 - 12 = 24 \Rightarrow 36 - 12 = 24 **31**. (2) 16 × 4 > 64 ÷ 4 ⇒ 64 ⇒ **32**. (1) 28 ÷ 4 + 9 = 16 \Rightarrow 7 + 9 = 16 **33.** (4) 16 × 6 ÷ 96 24 **34**. (2) 16 - 8 ÷ 1 = 8 \Rightarrow 16 - 8 = 8 **35.** (1) $9 \div 3 \times 3 - 3 = 6$ \Rightarrow 3 × 3 – 3 = 6 \Rightarrow 9 - 3 = 6 **36**. (2) 8 * 6 * 96 * 2 = 0 \Rightarrow 8 × 6 - 96 ÷ 2 = 0 \Rightarrow 48 - 48 = 0 **37.** (2) $\frac{264}{2} = 132$

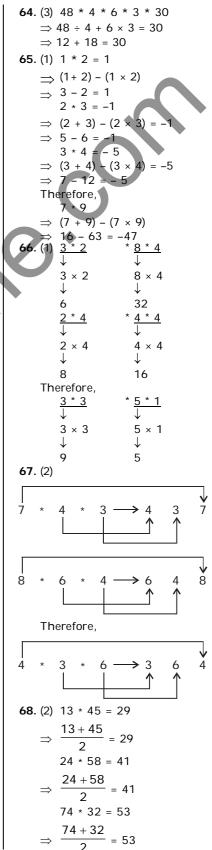
1 + 3 + 2 = 6

$\frac{735}{5} = 147$ 1 + 4 + 7 = 12**38.** (1) 24 * 16 * 8 * 32 \Rightarrow 24 + 16 - 8 = 32 \Rightarrow 40 - 8 = 32 **39**. (2) 15 * 24 * 3 * 6 * 17 \Rightarrow 15 + 24 \div 3 - 6 = 17 \Rightarrow 15 + 8 - 6 = 17 **40**. (1) 5 * 5 * 5 * 3 * 10 \Rightarrow 5 × 5 + 5 = 3 × 10 $\Rightarrow 30 = 30$ **41**. (2) 21 * 7 * 6 * 9 \Rightarrow 21 ÷ 7 + 6 = 9 \Rightarrow 3 + 6 = 9 **42**. (4) 6 * 4 * 12 * 12 \Rightarrow 6 × 4 – 12 = 12 \Rightarrow 24 - 12 = 12 **43**. (3) 8 * 8 * 1 44. (2) 13 3 * 4 3 = 4⇒ 13 – 3 × 4 + 3 = 4 13 - 12 + 3 = 41 + 3 = 4**45**. (3) 2 * 4 * 3 * 4 * 9 $\Rightarrow 2 \times 4 - 3 + 4 = 9$ \Rightarrow 8 – 3 + 4 = 9 \Rightarrow 5 + 4 = 9 **6**. (1) 5 * 6 = 35 $\Rightarrow 6 \times 5 + 5 = 35$ 8 * 4 = 28 $4 \times 5 + 8 = 28$ Similarly, 6 * 8 $8 \times 5 + 6 = 46$ **47**. (3) 12 * 3 * 4 = 6 * 8 * 8 \Rightarrow 12 × 3 + 4 = 6 × 8 - 8 \Rightarrow 36 + 4 = 48 - 8 $\Rightarrow 40 = 40$ **48.** (1) 5 * 9 * 3 * 6 * 8 \Rightarrow 5 × 9 + 3 = 6 × 8 \Rightarrow 45 + 3 = 48 **49**. (2) 33 * 11 * 3 * 6 = 115 \Rightarrow 33 × 11 ÷ 3 – 6 = 115 $\Rightarrow \left(\frac{33 \times 11}{3}\right)$ ⇒ 11 × 11 – 6 = 115 \Rightarrow 121 - 6 = 115

50. (2) 13 * 12 * 5 * 4 \Rightarrow 13 = 12 + 5 - 4 ⇒ 13 = 17 **-** 4 **51**. (1) 73 * 17 = 45 $\Rightarrow \frac{73+17}{2} = \frac{90}{2} = 45$ 68 * 40 = 54 68 + 40Similarly, 83 * 15 = ? 83+ 49 52. (*) Option (1) $(\sqrt{121} - 9) + 5 \times 4 = 1$ \Rightarrow (11 – 9) + 5 × 4 = 1 \Rightarrow 2 + 5 × 4 = 1 \Rightarrow 2 + 20 \neq 1 Option (2) $(\sqrt{121} + 9) \div 5 \times 4 = 1$ \Rightarrow (11 + 9) \div 5 × 4 = 1 $\Rightarrow \frac{20}{5} \times 4 \#1$ Option (3) $(\sqrt{121} = 9) + 5 \times 4 \div 1$ \Rightarrow 11 \neq 9 + 20 Option (4) $(\sqrt{121} - 9) \times 5 + 4 = 1$ \Rightarrow (11 - 9) × 5 + 4 = 1 \Rightarrow 2 × 5 + 4 \neq 1 **53**. (2) 45 * 3 * 6 * 2 * 16 \Rightarrow (45 + 3) \div 6 × 2 = 16 \Rightarrow 48 ÷ 6 × 2 = 16 \Rightarrow 8 × 2 = 16 **54.** (3) 8 * 5 * 10 * 2 * 25 \Rightarrow 8 × 5 + 10 = 2 × 25 \Rightarrow 40 + 10 = 50 **55.** (1) 5 * 3 * 3 * 5 * 0 \Rightarrow 5 × 3 ÷ 3 – 5 = 0 \Rightarrow 5 – 5 = 0 **56**. (*) $|+ \Rightarrow - |- \Rightarrow \times$ $\times \Longrightarrow \div$ $\div \Rightarrow +$ Option (1) 42 * 4 * 12 * 20 * 9 \Rightarrow 42 - 4 ÷ 12 × 20 + 9 After changing the signs 42 × 4 + 12 ÷ 20 - 9

 $\Rightarrow 42 \times 4 + \frac{12}{20} - 9$ \Rightarrow 168 + $\frac{3}{5}$ - 9 \neq 0 Option (2) 42 * 4 * 12 * 20 * 9 \Rightarrow 42 ÷ 4 + 12 - 20 × 9 After changing the signs $42 + 4 - 12 \times 20 \div 9$ \Rightarrow 42 + 4 - $\frac{12 \times 20}{9}$ \Rightarrow 42 + 4 - $\frac{80}{2}$ \Rightarrow 46 - $\frac{80}{3} \neq 0$ Option (3) 42 * 4 * 12 * 20 * 9 \Rightarrow 42 + 4 - 12 \div 20 \times 9 After changing the signs \Rightarrow 42 - 4 × 12 + 20 ÷ 9 \Rightarrow 42 - 4 × 12 + $\frac{20}{a}$ \Rightarrow 42 - 48 + $\frac{20}{9} \neq 0$ Option (4) 42 * 4 * 12 * 20 * 9 \Rightarrow 42 × 4 - 12 ÷ 20 + 9 After changing the signs 42 ÷ 4 × 12 + 20 - 9 $\Rightarrow \frac{21}{2} \times 12 + 20 - 9$ \Rightarrow 21 × 6 + 20 - 9 \neq 0 **57**. (2) (16 + 18) * (21 - 11) * 32 * 8 \Rightarrow 34 - 10 = 32 - 8 = 24 = 24 58. (4) 2 10 *10 = 5 * 10 ? 50 @ 10 \Rightarrow 10 × 10 - 5 × 10 + 50 ÷ 10 \Rightarrow 10 × 10 – 5 × 10 + 5 \Rightarrow 100 - 50 + 5 = 55 **59**. (4) 37 * 14 = 17 $\Rightarrow \frac{37+14}{3} = 17$ $\Rightarrow \frac{51}{3} = 17$ 69 * 33 = 34

 $\Rightarrow \frac{69+33}{3} = 34$ $\Rightarrow \frac{102}{3} = 34$ 91 * 125 = 72 $\Rightarrow \frac{91+125}{3} = 72$ $\Rightarrow \frac{216}{3} = 72$ Therefore, 28 * 56 $\Rightarrow \frac{28+56}{3} \Rightarrow \frac{84}{3} = 28$ **60**. (2) 5 * 3 = 19 \Rightarrow (5 \times 2) + (3 \times 3) = 19 [2 = 5 - 3] \Rightarrow 10 + 9 = 19 8 * 5 = 49 \Rightarrow (8 × 3) + (5 × 5) = 49 [3 = 8 - 5] $\Rightarrow 24 + 25 = 49$ Therefore, 6*4 \Rightarrow (6 × 2) + (4 × 4) [2 = 6 - 4]⇒ 12 + 16 = 28 61. (4) ¥ ¥ 2 5 > 1 Δ 7 ∗ 8 ∗ 1 ∗ 6 → 6 8 1 Therefore, 9 × 3 × 7 × 5 → 5 3 7 9 **62.** (1) $4 * 2 = 3 \Rightarrow \frac{4}{2} + 1 = 3$ $8 * 4 = 3 \Longrightarrow \frac{8}{4} + 1 = 3$ Therefore, $21 * 7 = ? \Rightarrow \frac{21}{7} + 1 = 4$ **63**. (2) 3 * 4 = 10 \Rightarrow 3 × 2 + 4 = 10 5 * 8 \Rightarrow 5 × 2 + 8 = 18 \Rightarrow 7 × 2 + 7 = 21



SYMBOLS & NOTATIONS **6.** (3) $(5 + 2) \times 2 - 10 = 16$ Therefore, Option (2) 97 * 47 \Rightarrow (5 - 2) × 2 + 10 = 16 $(30 \times 10) \div 5 = 60$ \Rightarrow 97 + 47 = 144 \Rightarrow 3 × 2 + 10 = 16 \Rightarrow (30 ÷ 5) × 10 = 60 $\Rightarrow \frac{144}{2} = 72$ \Rightarrow 6 + 10 = 16 $\Rightarrow 6 \times 10 = 60$ **7.** (3) $30 \div 6 - 4 + 2 \times 3 = 7$ Option (3) \Rightarrow 5 - 4 + 6 = 7 $(30 \div 10) \times 5 = 18$ 69. (2) **8.** (1) $5 + 6 \times 3 - 12 \div 2 = 17$ \Rightarrow (30 × 5) ÷ 10 = 18 ⇒ 150 ÷ 10 = 18 \Rightarrow 5 + 18 - 6 = 17 \Rightarrow 23 - 6 = 17 $\Rightarrow 15 \neq 18$ 2 * 3 * 5 5 2 3 **9.** (4) $(7 + 2) \times 3 \times 4 - 1 = 20$ Option (4) \Rightarrow (7 × 2) + 3 + 4 - 1 = 20 $(10 \div 30) \times 5 = 70$ \Rightarrow (5 × 30) \div 10 = 70 \Rightarrow 14 + 3 + 4 - 1 = 20 ⇒ 150 ÷ 10 = 70 **10.** (1) $(16 - 4) \times 6 \div 2 + 8 = 30$ \Rightarrow 15 \neq 70 \Rightarrow (16 ÷ 4) × 6 – 2 + 8 = 30 6 * 4 * 1 6 **21.** (3) $(6 + 3) + (4 \times 7) = 29$ \Rightarrow 4 × 6 - 2 + 8 = 30 \Rightarrow (6 × 3) + (4 + 7) = 29 \Rightarrow 24 - 2 + 8 = 30 ⇒ 18 + 11 = 29 \Rightarrow 32 - 2 = 30 **11.** (3) $6 \times 4 + 2 = 16$ **22.** (1) $28 - 7 + 2 \times 2 = 0$ 8 * 2 * 4 8 2 \Rightarrow 4 + 6 × 2 = 16 \Rightarrow 28 - 7 × 2 × 2 = 0 \Rightarrow 4 + 12 = 16 $\Rightarrow 28 - 28 = 0$ **12.** (4) $(20 - 4) \times 4 + 16 = 36$ 23. (*) There are two equations and it Therefore, \Rightarrow (20 ÷ 4) × 4 + 16 = 36 is not possible to correlate the two equations as per the information \Rightarrow 5 × 4 + 16 = 36 given in the question. **13**. (1) 2 × 3 + 6 - 12 ÷ 4 2 6 * 8 * 2 6 8 $\Rightarrow 2 + 3 \times 6 - 12 \div 4 = 17$ **24.** (2) $6 \times 4 + 2 = 16$ \Rightarrow 4 + 6 × 2 = 16 ⇒ 2 + 18 - 3 = 17 **14**. (3) 10 + 10 ÷ 10 - 10 × 10 = 10 \Rightarrow 4 + 12 = 16 **70**. (3) 9 * 8 = 63 **25.** (4) 6 + 2 - 3 = 16⇒ 10 × 10 ÷ 10 − 10 + 10 = 10 \Rightarrow 9 × 7 = 63 \Rightarrow 6 × 3 – 2 = 16 > 10 - 10 + 10 = 10 7 * 8 = 49 **15.** (4) $(8 - 8) + 8 \times 32 = 64$ \Rightarrow 18 – 2 = 16 \Rightarrow 7 × 7 = 49 26. (3) Option (1) ⇒ (8 + 8) ÷ 8 × 32 = 64 5 * 6 = 25 $8 - 7 + 3 \times 5 = 35$ $\Rightarrow 5 \times 5 = 25$ \Rightarrow 16 ÷ 8 × 32 = 64 \Rightarrow 7 + 8 - 3 × 5 = 35 11 * 7 = ? $\Rightarrow 2 \times 32 = 64$ \Rightarrow 7 + 8 - 15 \neq 35 **6**. (4) $8 \times 20 \div 3 + 9 - 5 = 38$ \Rightarrow 11 × 6 = | 66 Option (2) \Rightarrow 8 × 20 ÷ 5 + 9 - 3 = 38 $7 \times 8 + 6 - 9 = 25$ \Rightarrow 8 × 4 + 9 - 3 = 38 TYPE-III \Rightarrow 8 × 7 - 6 + 9 = 25 \Rightarrow 32 + 9 - 3 = 38 \Rightarrow 56 - 6 + 9 \neq 25 **17.** (2) $(18 \div 9) + 3 \times 5 = 45$ **1**. (4) $(12 + 6) \times 18 = 36$ Option (3) \Rightarrow (18 + 9) ÷ 3 × 5 = 45 \Rightarrow (18 ÷ 6) × 12 = 36 $6 + 8 \times 2 - 7 = 0$ \Rightarrow 27 ÷ 3 × 5 = 45 \Rightarrow 3 × 12 = 36 \Rightarrow 6 - 7 × 2 + 8 = 0 **18**. (3) 8 × 6 + 2 = 22 **2.** (2) $5 = 15 \div 3$ \Rightarrow 6 - 14 + 8 = 0 \Rightarrow 6 + 8 × 2 = 22 **3.** (3) (12 ÷ 6) + 3 × 7 = 42 \Rightarrow 14 - 14 = 0 \Rightarrow 6 + 16 = 22 \Rightarrow (12 + 6) \div 3 × 7 = 42 19. (3) Given expression Option (4) \Rightarrow 18 \div 3 \times 7 = 42 $64 - 8 \times 9 \times 8 = 64$ $8 \times 2 + 7 - 6 = 9$ **4.** (3) $35 + 7 \times 5 \div 5 - 6 = 24$ After interchange \Rightarrow 7 × 2 – 8 + 6 = 9 \Rightarrow 35 ÷ 7 × 5 + 5 - 6 = 24 $(64 + 8) \div 9 \times 8 = 64$ \Rightarrow 14 - 14 \neq 9 \Rightarrow 5 × 5 + 5 - 6 = 24 $72 \div 9 \times 8 = 64$ **27.** (1) $5 + 3 \times 8 - 12 \div 4 = 3$ \Rightarrow 25 + 5 - 6 = 24 $\Rightarrow 8 \times 8 = 64$ \Rightarrow 5 + 3 × 8 ÷ 12 - 4 = 3 **5.** (3) $24 \div 6 \times 3 + 3 - 1 = 14$ 20. (2) Option (1) $\Rightarrow 5 + \frac{3 \times 8}{12} - 4 = 3$ \Rightarrow 4 × 3 + 3 - 1 = 14 $(30 \div 5) \times 10 = 24$ \Rightarrow 12 + 3 - 1 = 14 \Rightarrow (30 × 10) ÷ 5 = 24 \Rightarrow 5 + 2 - 4 = 3 \Rightarrow 15 –1 = 14 \Rightarrow 300 ÷ 5 = 24

 $\Rightarrow 60 \neq 24$



JK Chrome | Employment Portal



Rated No.1 Job Application of India

Sarkari Naukri Private Jobs Employment News Study Material Notifications











JK Chrome





www.jkchrome.com | Email : contact@jkchrome.com