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# CHAPTER

## Mathematical Operation and Arithmetical Reasoning

1. After interchanging ÷ and +, 12 and 18, which one of the following equations becomes correct?

#### (SSC CGL 1st Sit. 2010)

(a) 
$$(90 \times 18) + 18 = 60$$

(b) 
$$(18+6) \div 12=2$$

(c) 
$$(72 \div 18) \times 18 = 72$$

(d) 
$$(12+6) \times 18 = 36$$

Find out the correct answer for the unsolved equation on the basis of the given equation

If 
$$6*5=91$$
  
 $8*7=169$ 

$$10*7=211$$
  
then  $11*10=?$ 

(SSC CGL 1st Sit. 2010)

- (b) 993
- (c) 678
- (d) 845
- 3. In the following question, Δ stands for any of the mathematical signs at different places, which are given as choices under each question. Select the choice with the correct sequence of signs which when substituted makes the question. Select the choice with the correct sequence of signs which when substituted makes the question as a correct equation.

 $24\Delta4\Delta5\Delta4$ 

#### (SSC CGL 1st Sit. 2010)

- (a)  $\times +=$
- (b)  $= \times +$
- (c)  $+\times=$
- (d) None of these
- 4. Little wooden cubes each with a side of one inch are put together to form a solid cube with a side of three inches. This big cube is then painted red all over on the outside. When the big cube is broken up into the original little ones, how many cubes will have paint on two sides?

#### (SSC CGL 1st Sit. 2010)

- (a) 4
- (b) 8
- (c) 12
- (d) 0
- Ashok's mother was 3 times as old as Ashok 5 years ago.
   After 5 years she will be twice as old as Ashok How old is Ashok today?
   (SSC CGL 1<sup>st</sup> Sit. 2010)
  - (a) 10 years
- (b) 15 years
- (c) 20 years
- (d) 25 years
- 6. A bus leaves Delhi with half the number of women as men, At Meerut, ten men get down and five women get in. Now there are equal number of men and women. How many passengers boarded the bus initially at Delhi?

#### (SSC CGL 1st Sit. 2010)

- (a) 36
- (b) 45
- (c) 15
- (d) 30
- A bus left with some definite number of passengers. At the first stop, half the passengers left the bus and 35 boarded

the bus. At the second stop  $\frac{1}{5}$  th of the passengers left and

40 boarded the bus. Then, the bus moved with 80 passengers towards its destination without stopping any where. How many passengers were there originally?

(SSC CGL 2<sup>nd</sup> Sit. 2010)

- (a) 25
- (b) 30
- (c) 40
- (d) 50
- 8. A man is 3 years older than his wife and four times as old as his son. If the son becomes 15 years old after 3 years, what is the present age of the wife? (SSC CGL 2<sup>nd</sup> Sit. 2010)
  - (a) 60 years
- (b) 51 years
- (c) 48 years
- (d) 45 years
- 9. If 841 = 3,633 = 5,425 = 7 then 217 = ?

- (a) 6
- (b) 7
- (c) 8
- (d) 9
- The following equations follow a common property. Find out the correct value to complete D:

$$A = 51 (714) 14$$
:

B=61 (915) 15:

C = 71 (1136) 16:

D = 81 (?) 17

(SSC CGL 2nd Sit. 2010)

- (a) (1377)
- (b) (1378)
- (c) (1356)
- (d) (1346)
- 11. After interchanging ÷ and =, 2 and 3 which one of the following statements becomes correct?

#### (SSC CGL 2<sup>nd</sup> Sit. 2010)

- (a)  $15 = 2 \div 3$
- (b)  $5 \div 15 = 2$
- (c)  $2 = 15 \div 3$
- (d)  $3 = 2 \div 15$
- 12. 25 \* 2 \* 6 = 4 \* 11 \* 0

Which set of symbols can replace \*?

#### (SSC CGL 2<sup>nd</sup> Sit. 2010)

- (a)  $\times$ , -,  $\times$ , +
- (b)  $+, -, \times, +$
- (c)  $\times$ , +,  $\times$ , –
- (d)  $\times$ , +, +,  $\times$
- 13. Find the missing number from the given responses:

  (SSC CGL 2<sup>nd</sup> Sit. 2010)

5	6	12
4	3	4
2	3	?
18	27	96

- (a) 4
- (b) 5
- (c) 3
- (d) 6
- 4. Ravi has spent a quarter  $\left(\frac{1}{4}\right)$  of his life as a boy, one-fifth
  - $\left(\frac{1}{5}\right)$  as a youth, one-third  $\left(\frac{1}{3}\right)$  as man and thirteen (13) years in old age. What is his present age?

(SSC CGL 1st Sit. 2011)

15.	(a) 70 years (b) 80 years (c) 60 years (d) 65 years Out of 100 families in the neighbourhood, 50 have radios, 75 have TVs and 25 have VCRs. Only 10 families have all three and each VCR owner also has a TV. If some families have radio only, how many have only TV?  (SSC CGL 1st Sit. 2011)	22.	There are 80 families in a small extension area. 20 per cent of these families own a car each. 50 per cent of the remaining families own a motor cycle each. How many families in that extension do not own any vehicle?(SSC CGL 2 <sup>nd</sup> Sit. 2011)  (a) 30 (b) 32  (c) 23 (d) 36  Some equations have been solved on the basis of certain
16.	(a) 30 (b) 35 (c) 40 (d) 45  In a certain office, $\frac{1}{3}$ of the workers are women, $\frac{1}{2}$ of the		system. Find the correct answer for the unsolved equation on that basis. (SSC CGL 2 <sup>nd</sup> Sit. 2011)  If 94 + 16 = 42, 89 + 23 = 78, then 63 + 45 = ?  (a) 18 (b) 28  (c) 38 (d) 48
	women are married and $\frac{1}{3}$ of the married women have children. If $\frac{3}{4}$ of the men are married and $\frac{2}{3}$ of the married men have children, then what part of workers are without children?  (SSC CGL 1 <sup>st</sup> Sit. 2011)  (a) $\frac{5}{18}$ (b) $\frac{4}{9}$	24.	Some relationships have been expressed through symbols which are explained below: $0 = \text{greater than}$ $\Delta = \text{not equal to}$ $\times = \text{not less than}$ $+ = \text{equal to}$ $\phi = \text{not greater than}$ $\nabla = \text{less than}$
	(c) $\frac{11}{18}$ (d) $\frac{17}{36}$		$\nabla$ = less than a $\nabla$ b $\nabla$ c implies (SSC CGL 1 <sup>st</sup> Sit. 2012) (a) a $\Delta$ b $\phi$ c (b) a $\phi$ b+c
17.	If '-' stands for '÷' '+' stands for '×', '÷' for '-' and '×' for '+', which one of the following equations in correct?  (SSC CGL 1st Sit. 2011)	25.	(c) $a \ 0 \ b + c$ (d) $a \ 0 \ b \times c$ If $54 + 43 = 2$ , $60 + 51 = 10$ , then $62 + 72 = ?$ (SSC CGL 1st Sit. 2012)
	(a) $30-6+5\times 4 \div 2 = 27$ (b) $30+6-5 \div 4 \times 2 = 30$ (c) $30\times 6 \div 5 - 4 + 2 = 32$ (d) $30\div 6\times 5 + 4 - 2 = 40$	26.	(a) 30 (b) 18 (c) 20 (d) 9 If L denotes × M denotes ÷; P denotes +; Q denotes – then 16 P 24 M 8 Q 6 M 2 L 3 =? (SSC CGL 1 <sup>st</sup> Sit. 2012)
18.	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 $19*11=?$ (SSC CGL 1st Sit. 2011)	27.	(a) 10 (b) 9 (c) 12 (d) 11 If 16-2=2,9-3=0,81-1=8, then what is 64-4?
19.	(a) 150 (b) 180 (c) 210 (d) 240 Forecast the Growth Rate for the year 1995 from the following data: (SSC CGL 1st Sit. 2011)	28.	(a) 4 (b) 2 (c) 6 (d) 8 Volume of a sphere is equal to the volume of a hemisphere. If
	W 1000 1001 1002 1003 1004 1005		the radius of the hamisphere is a 3/2 cm, then the radius of

Years →	1990	1991	1992	1993	1994	1995
Growth Rate →	3.5	3.7	4.1	4.9	6.5	?

(a) 7.8

(b) 8.6

(c) 9.7

(d) 9.9

20. The population of rats is increasing year after year in a village. Find out the missing population from the following (SSC CGL 2nd Sit. 2011) information:

1990 1991 1992 1993 1994 1995 Years Population 4 8 16 44 64

(a) 22

(c) 28

(b) 32 (d) 34

21. Shan is 55 years old, Sathian is 5 years junior to Shan and 6 years senior to Balan. The youngest brother of Balan is Devan and he is 7 years junior to him. So what is the age difference (SSC CGL 2<sup>nd</sup> Sit. 2011) between Devan and Shan?

(a) 18 years

(b) 15 years

(c) 13 years

(d) 7 years

If the radius of the hemisphere is  $3\sqrt[3]{2}$  cm, then the radius of (SSC CGL 1st Sit. 2012) the sphere is equal to

(a)  $9\sqrt[3]{2}$  cm

(b)  $6\sqrt[3]{2}$  cm

(c) 27 cm

(d) 3 cm

29. If  $64 \div 14 = 5$ ,  $92 \div 31 = 7$ ,  $26 \div 11 = 6$ , then  $56 \div 22 = _?_$ 

(SSC CGL 2nd Sit. 2012)

(a) 11

(b) 39

(d) 36 (c) 7

30. If P denotes ÷, Q denotes ×, R denotes +, and S denotes -, (a) 95 (b) 53

(c) 51

(d) 57

31. If  $25 \div 5 = 15$ ,  $30 \div 6 = 20$ , then  $35 \div 7 = _?_$ (SSC CGL 2nd Sit. 2012)

(b) 20

(a) 75 (c) 50

(d) 25

32.	If $33 + 45 = 30$ , $90 + 26 = 40$ , then $30 + 45 = ?$ (SSC CGL 2 <sup>nd</sup> Sit. 2012)	43.	A car travels 20 miles in the same time as another car, travelling 20 MPH faster, covers 30 miles. How long does the journey take? (SSC Sub. Ins. 2012)
	(a) 15 (b) 14		(a) 31 minutes (b) 29 minutes
	(c) 16 (d) 18		(c) 30 minutes (d) 28 minutes
33.	, , , , , , , , , , , , , , , , , , , ,	44.	Complete the third equation on the basis of a certain system
	If the age of Manager is added, the average increases to 31	• • • •	followed in the first two equations.
	years. What is the age of the Manager?		1. $1 \times 8 \times 5 \times 3 \times 7 = 73581$
	(SSC CGL 1 <sup>st</sup> Sit. 2012)		$2.  5 \times 7 \times 6 \times 2 \times 4 = 42675$
	(a) 26 (b) 36		3. $9 \times 4 \times 3 \times 2 \times 8 = ?$ (SSC Sub. Ins. 2012)
	(c) 46 (d) 56		(a) 83924 (b) 82349
34.	Class A has students twice that of class B. After adding 20		(c) 28394 (d) 28934
	students to class A and 30 students to class B, the total	45.	If $64 + 53 = 4$ , $86 + 42 = 4$ , then
	number of students in both the classes is 140. What is the	45.	83+72=? (SSC Sub. Ins. 2012)
	number of students in class A in the beginning?		(a) 12 (b) 10
	(SSC CGL 1st Sit. 2012)		(a) 12 (b) 16 (c) 15 (d) 18
	(a) 30 (b) 60	46	If Q means add to, J means multiply by, T means subtract
	(c) 80 (d) 140	40.	from, K means divided by, then
35	Find the lowest number which when divided by 8, 12, 15 and		30 K 2 Q 3 J 6 T 5 = ? (SSC Sub. Ins. 2012)
55.	20 leaves the remainder 2. (SSC CGL 1 <sup>st</sup> Sit. 2012)		(a) 18 (b) 28
	(a) 360 (b) 242		(a) 16 (b) 26 (c) 31 (d) 103
	(c) 122 (d) 82	47	If I means 'x', You means '÷', We means '-' and He means
26	If $38 + 15 = 66$ and $29 + 36 = 99$ , then $82 + 44 = ?$	٠,.	'+', then what will be the value of 8 I 12 He 16 You 2 We 10?
30.	· · · · · · · · · · · · · · · · · · ·		(SSC Sub. Ins. 2012)
	(SSC CGL 1 <sup>st</sup> Sit. 2012)		/ · · · · · · · · · · · · · · · · · · ·
	(a) 77 (b) 88		(a) 45 (b) 94
	(c) 80 (d) 94	40	(c) 96 (d) 112
37.	If $+$ means $\div$ , $-$ means $\times$ , $\times$ means $+$ , $\div$ means $-$ , give the value	48.	At present, the ratio between the ages of Arun and Deepak
	for $45 + 9 - 3 \times 15 \div 2$ (SSC CGL 1 <sup>st</sup> Sit. 2012)		is 4:3. After 6 years, Arun's age will be 26 years. What is the
	(a) 40 (b) 36		age of Deepak at present? (SSC Sub. Ins. 2013)
	(b) 30		
			(a) 15 years (b) 19 years
38.	(c) 56 (d) 28		(c) 24 years (d) 12 years
38.	(c) 56 (d) 28 From the given details, estimate the number of people	DIF	
38.	(c) 56 (d) 28 From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year		(c) 24 years (d) 12 years
38.	(c) 56 (d) 28 From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1 <sup>st</sup> Sit. 2012)	som	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions,.
38.	(c) 56 (d) 28 From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998	som	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, we equations are solved on the basis of a certain system. On the
38.	(c) 56 (d) 28 From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176	som sam	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, are equations are solved on the basis of a certain system. On the basis, find out the correct answer for the unsolved equation.
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	(c) 56 (d) 28  From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1 <sup>st</sup> Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176 (a) 99 (b) 85 (c) 71 (d) 78	som sam	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, the equations are solved on the basis of a certain system. On the see basis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then 345 =?
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39. 40.	(c) 56 (d) 28  From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176 (a) 99 (b) 85 (c) 71 (d) 78  A boy's age is one fourth of his father's age. The sum of the boy's age and his father's age is 35. What will be father's age after 8 years? (SSC CGL 2nd Sit. 2012) (a) 15 (b) 28 (c) 35 (d) 36  If+ means ÷, -means ×, × means +, ÷ means -, then 90+18-6×30 ÷ 4=? (SSC CGL 2nd Sit. 2012) (a) 64 (b) 65 (c) 56 (d) 48	49. 50.	(c) 24 years (d) 12 years <b>RECTIONS (Qs. 49-50):</b> In each of the following questions, we equations are solved on the basis of a certain system. On the equations be basis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then $345 = ?$ (a) 49 (b) 66 (c) 72 (d) 50 $2 \times 3 = 49, 5 \times 6 = 2536, 1 \times 9 = 181, 4 \times 7 = ?$ (a) 1628 (b) 1649 (c) 2549 (d) 1219  If 'x' means '+', '\(\div \)' means '-', + means '\(\div \)' and '-' means 'x' then what should be the value of the given equation? $14 \times 4 \div 70 + 10 - 2 = ?$ (a) 33 (b) 15
39. 40.	(c) 56 (d) 28 From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176 (a) 99 (b) 85 (c) 71 (d) 78 A boy's age is one fourth of his father's age. The sum of the boy's age and his father's age is 35. What will be father's age after 8 years? (SSC CGL 2nd Sit. 2012) (a) 15 (b) 28 (c) 35 (d) 36 If + means $\div$ , - means $\times$ , $\times$ means +, $\div$ means -, then 90 + 18 - 6 $\times$ 30 $\div$ 4 = ? (SSC CGL 2nd Sit. 2012) (a) 64 (b) 65 (c) 56 (d) 48 If 73 + 46 = 42 and 95 + 87 = 57, then 62 + 80 = ?	49. 50.	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, we equations are solved on the basis of a certain system. On the expression between the basis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then 345 =?  (a) 49 (b) 66  (c) 72 (d) 50 $2 \times 3 = 49, 5 \times 6 = 2536, 1 \times 9 = 181, 4 \times 7 =?$ (a) 1628 (b) 1649  (c) 2549 (d) 1219  If 'x' means '+', '\(\div \)' means '\(\div \)', +means '\(\div \)' and '\(\div \)' means '\(\div \)' then what should be the value of the given equation? $14 \times 4 \div 70 + 10 - 2 = ?$ (a) 33 (b) 15  (c) 30 (d) 4
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39. 40.	(c) 56 (d) 28  From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176 (a) 99 (b) 85 (c) 71 (d) 78  A boy's age is one fourth of his father's age. The sum of the boy's age and his father's age is 35. What will be father's age after 8 years? (SSC CGL 2nd Sit. 2012) (a) 15 (b) 28 (c) 35 (d) 36  If + means ÷, - means ×, × means +, ÷ means -, then 90 + 18 - 6 × 30 ÷ 4 =? (SSC CGL 2nd Sit. 2012) (a) 64 (b) 65 (c) 56 (d) 48  If 73 + 46 = 42 and 95 + 87 = 57, then 62 + 80 =? (SSC CGL 2nd Sit. 2012) (a) 32 (b) 48 (c) 64 (d) 36  Based on the given data, estimate the number of 'Television-	50. 51.	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, to equations are solved on the basis of a certain system. On the etasis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then $345 = ?$ (a) 49 (b) 66  (c) 72 (d) 50 $2 \times 3 = 49, 5 \times 6 = 2536, 1 \times 9 = 181, 4 \times 7 = ?$ (a) 1628 (b) 1649  (c) 2549 (d) 1219  If 'x' means '+', '\(\div \)' means '-', + means '\(\div \)' then what should be the value of the given equation? $14 \times 4 \div 70 + 10 - 2 = ?$ (a) 33 (b) 15  (c) 30 (d) 4  Select the correct combination of mathematical signs to replace * signs and to balance the given equation. $5 \times 5 \times 5 \times 3 \times 10$ (a) $\times + = \times$ (b) $+ - \times =$
39. 40.	(c) 56 (d) 28  From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176 (a) 99 (b) 85 (c) 71 (d) 78  A boy's age is one fourth of his father's age. The sum of the boy's age and his father's age is 35. What will be father's age after 8 years? (SSC CGL 2nd Sit. 2012) (a) 15 (b) 28 (c) 35 (d) 36  If + means ÷, - means ×, × means +, ÷ means -, then 90 + 18 - 6 × 30 ÷ 4 =? (SSC CGL 2nd Sit. 2012) (a) 64 (b) 65 (c) 56 (d) 48  If 73 + 46 = 42 and 95 + 87 = 57, then 62 + 80 =? (SSC CGL 2nd Sit. 2012) (a) 32 (b) 48 (c) 64 (d) 36  Based on the given data, estimate the number of 'Television-buyers' for the year 1990. (SSC CGL 2nd Sit. 2012)	50. 51.	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, to equations are solved on the basis of a certain system. On the explaint by a basis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then 345 =?  (a) 49 (b) 66  (c) 72 (d) 50 $2 \times 3 = 49, 5 \times 6 = 2536, 1 \times 9 = 181, 4 \times 7 = ?$ (a) 1628 (b) 1649  (c) 2549 (d) 1219  If 'x' means '+', '\(\dip'\) means '\(\dip'\), + means '\(\dip'\) and '\(\dip'\) means '\(\dip'\) then what should be the value of the given equation? $14 \times 4 \div 70 + 10 - 2 = ?$ (a) 33 (b) 15  (c) 30 (d) 4  Select the correct combination of mathematical signs to replace * signs and to balance the given equation. $5 \times 5 \times 5 \times 3 \times 10$ (a) $\times + = \times$ (b) $\times + \times = \times 10$ (c) $\times + \times \times 10$ (d) $\times + \times \times 10$ (e) $\times + \times \times 10$ (f) $\times \times \times 10$ (g) $\times \times \times 10$ (g) $\times \times 10$ (g) $\times \times 10$ (g) $\times \times 10$ (g) $\times $
39. 40.	(c) 56 (d) 28 From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176 (a) 99 (b) 85 (c) 71 (d) 78 A boy's age is one fourth of his father's age. The sum of the boy's age and his father's age is 35. What will be father's age after 8 years? (SSC CGL 2nd Sit. 2012) (a) 15 (b) 28 (c) 35 (d) 36 If + means ÷, - means ×, × means +, ÷ means -, then 90 + 18 - 6 × 30 ÷ 4 =? (SSC CGL 2nd Sit. 2012) (a) 64 (b) 65 (c) 56 (d) 48 If 73 + 46 = 42 and 95 + 87 = 57, then 62 + 80 =? (SSC CGL 2nd Sit. 2012) (a) 32 (b) 48 (c) 64 (d) 36 Based on the given data, estimate the number of 'Television-buyers' for the year 1990. (SSC CGL 2nd Sit. 2012) 1982 1984 1986 1988 1990	50. 51.	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, to equations are solved on the basis of a certain system. On the ebasis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then $345 = ?$ (a) 49 (b) 66 (c) 72 (d) 50 $2 \times 3 = 49, 5 \times 6 = 2536, 1 \times 9 = 181, 4 \times 7 = ?$ (a) 1628 (b) 1649 (c) 2549 (d) 1219  If 'x' means '+', '\(\div'\) means '\(\div'\), then what should be the value of the given equation? $14 \times 4 \div 70 + 10 - 2 = ?$ (a) 33 (b) 15 (c) 30 (d) 4  Select the correct combination of mathematical signs to replace * signs and to balance the given equation. $5 * 5 * 5 * 3 * 10$ (a) $\times + = \times$ (b) $+ - \times =$ (c) $+ \div = \times$ (d) $+ \div \times =$ If '\(\div'\) means '\(\div'\) '\(\div'\) means '\(\div'\), then $8 + 2 \div 3 - 4 \times 6 = ?$ (SSC CHSL 2012)
39. 40.	(c) 56	50. 51.	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, we equations are solved on the basis of a certain system. On the explaint be basis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then 345 =?  (a) 49 (b) 66  (c) 72 (d) 50 $2 \times 3 = 49, 5 \times 6 = 2536, 1 \times 9 = 181, 4 \times 7 =?$ (a) 1628 (b) 1649  (c) 2549 (d) 1219  If 'x' means '+', '\(\div \)' means '\(-'\), + means '\(\div \)' and '\(-'\) means '\(x'\) then what should be the value of the given equation? $14 \times 4 \div 70 + 10 - 2 =?$ (a) 33 (b) 15  (c) 30 (d) 4  Select the correct combination of mathematical signs to replace * signs and to balance the given equation. $5 \times 5 \times 5 \times 3 \times 10$ (a) $\times + = \times$ (b) $+ - \times =$ (c) $+ \div = \times$ (d) $+ \div \times =$ If '+' means '\(\div \)' '\(\div \)' means '\(-'\)', 'means '\(\div \)', then $8 + 2 \div 3 - 4 \times 6 =?$ (SSC CHSL 2012)  (a) $-12$ (b) $-2$
39. 40.	(c) 56 (d) 28 From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994. (SSC CGL 1st Sit. 2012) 1994 1995 1996 1997 1998 ? 92 113 141 176 (a) 99 (b) 85 (c) 71 (d) 78 A boy's age is one fourth of his father's age. The sum of the boy's age and his father's age is 35. What will be father's age after 8 years? (SSC CGL 2nd Sit. 2012) (a) 15 (b) 28 (c) 35 (d) 36 If + means ÷, - means ×, × means +, ÷ means -, then 90 + 18 - 6 × 30 ÷ 4 =? (SSC CGL 2nd Sit. 2012) (a) 64 (b) 65 (c) 56 (d) 48 If 73 + 46 = 42 and 95 + 87 = 57, then 62 + 80 =? (SSC CGL 2nd Sit. 2012) (a) 32 (b) 48 (c) 64 (d) 36 Based on the given data, estimate the number of 'Television-buyers' for the year 1990. (SSC CGL 2nd Sit. 2012) 1982 1984 1986 1988 1990	50. 51.	(c) 24 years (d) 12 years  RECTIONS (Qs. 49-50): In each of the following questions, we equations are solved on the basis of a certain system. On the explain basis, find out the correct answer for the unsolved equation.  (SSC Sub. Ins. 2013)  If 235 = 38 and 452 = 45, then 345 =?  (a) 49 (b) 66  (c) 72 (d) 50 $2 \times 3 = 49, 5 \times 6 = 2536, 1 \times 9 = 181, 4 \times 7 =?$ (a) 1628 (b) 1649  (c) 2549 (d) 1219  If 'x' means '+', '\(\dip'\) means '\(\dip'\), then what should be the value of the given equation? $14 \times 4 \div 70 + 10 - 2 =?$ (a) 33 (b) 15  (c) 30 (d) 4  Select the correct combination of mathematical signs to replace * signs and to balance the given equation. $5 * 5 * 5 * 3 * 10$ (a) $\times + = \times$ (b) $+ - \times =$ (c) $+ \div = \times$ (d) $+ \div \times =$ If '\(\dip'\) means '\(\dip'\); '\(\dip'\) means '\(\dip'\), 'means '\(\dip'\), 'means '\(\dip'\), 'means '\(\dip'\), then $8 + 2 \div 3 - 4 \times 6 =?$ (SSC CHSL 2012)

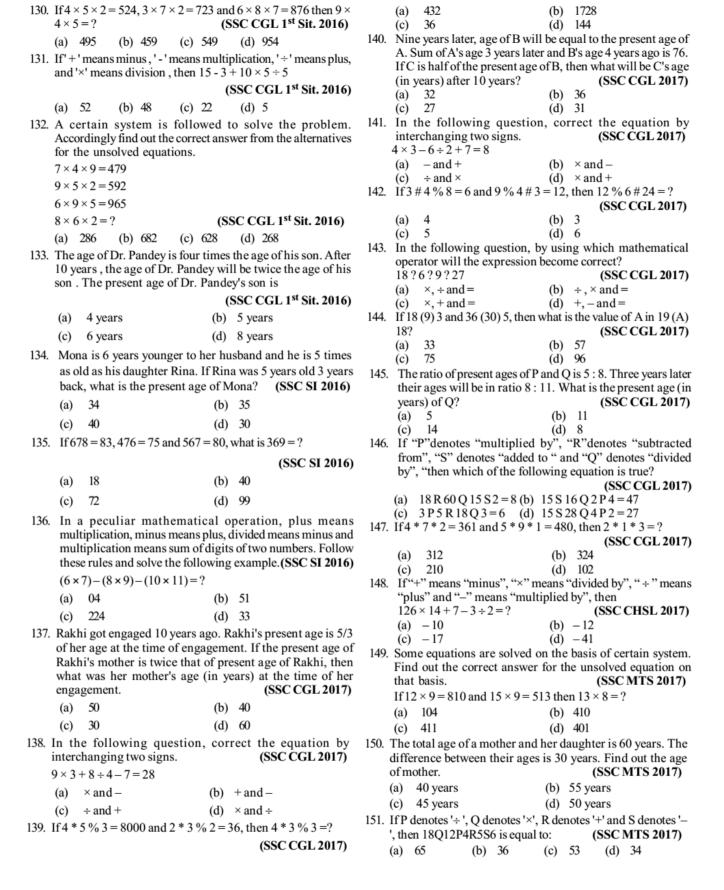
54.	Choose the appropriate combination of signs to solve. 16 * 8 * 1 * 8 (SSC CHSL 2012)	64.	If '+' stands for 'multiplication', '<' stands for 'division', '÷' stands for 'subtraction', '-' stands for 'addition' and '×'
	(a) =-+ (b) -+=		stands for 'greater than', identify which expression is correct.
	(c) +-= (d) +=-		(SSC CGL 2 <sup>nd</sup> Sit. 2013)
55.	The percentage of Laptop users are increasing year after		(a) $20-4 \div 4 + 8 < 2 \times 26$ (b) $20 \times 8 + 15 < 5 \div 9 - 8$
	year in India. Find out the percentage of Laptop users for the		(c) $20 < 2 + 10 \div 4 - 6 \times 100$ (d) $20 < 5 + 25 \div 10 - 2 \times 96$
	year 2011 from the following information.	65.	Which of the following interchanges of numbers would make
	(SSC CHSL 2012)		the given equation correct?
			$8 \times 20 \div 3 + 9 - 5 = 38$ (SSC CGL 1 <sup>st</sup> Sit. 2013)
	Year 2006 2007 2008 2009 2010 2011		(a) 8,9 (b) 3,5 (c) 3,9 (d) 3,8
	No. of users (%) 4 8 16 28 44 ?	66.	Put the correct mathematical signs in the following equation
	(a) 62 (b) 64		from the given alternatives.
	(c) 66 (d) 60		33 ? 11 ? 3 ? 6 = 115 (SSC CGL 1 <sup>st</sup> Sit. 2013)
56.	If $4 \times 2 \times 6 = 1626$ , $3 \times 7 \times 4 = 974$ , then $5 \times 6 \times 8 = ?$		(a) $\times, \div, -$ (b) $\div, \times, \times$
	(SSC Multitasking 2013)		(c) $-, \times, +$ (d) $+, -, \times$
	(a) 3658 (b) 2568	67.	Select the correct combination of mathematical signs to
	(c) 5664 (d) 6456		replace * signs and to balance the given equation.
57	If '+' means '÷', '×'means '+', '-' means '×' and '÷' means '-		15 * 24 * 3 * 6 * 17 (SSC CGL 1 <sup>st</sup> Sit. 2013)
٥,,	', then which of the following equations is correct?		(a) $+\times=\div$ (b) $-\times=+$
	(SSC Multitasking 2013)		(c) $-\div +=$ (d) $+\div -=$
	(a) $36+6-3\times 2=20$	68.	If '-' stand for addition, '+' stands for subtraction, '÷' stands
	(b) $36 \times 6 + 3 - 2 < 20$		for multiplication and 'x' stands for division, then which one
	(c) $36 \times 6 + 3 \times 2 > 20$		of the following equations is correct?
	(d) $36+6\times 3+2=20$		(SSC CGL 1st Sit. 2013)
58	A father is 5 times as old as his son. His son is 6 years old.		(a) $25 \times 5 \div 20 - 27 + 7 = 120$
20.	After how many years, will the father be 4 times as old as his		(b) $25+5\times20-27\div7=128$
	son? (SSC Multitasking 2013)		(c) $25+5-20+27\times7=95$
	(a) 2 years (b) 5 years		(d) $25-5+20\times27\div7=100$
	(c) 6 years (d) 4 years	69.	In the following question, some relationship have been
59.	What is the least number to be subtracted from 2486 to make		expressed through symbols which are
	it a perfect square? (SSC CGL 1 <sup>st</sup> Sit. 2013)		$\times$ = greater than $\theta$ = not less than
	(a) 80 (b) 85		$ \dot{=} $ = less than $\beta$ = not greater than
	(c) 90 (d) 95		$+$ = equal to $\phi$ = not equal to,
60.	In a question paper, there are 12 questions in all out of which		then A $\theta$ B × C implies (SSC CGL 1 <sup>st</sup> Sit. 2013)
	only six are to be answered. Six questions have an alternative		(a) $B \theta C$ (b) $A \div C$
	each. Each question has four parts. How many questions		(c) AφC (d) BβC
	including parts are there in the question paper?	70.	If $63 - 30 = 30$ , $72 - 10 = 40$ , then $81 - 60 = ?$
	(SSC CGL 1 <sup>st</sup> Sit. 2013)		(SSC CGL 1st Sit. 2013)
	(a) 24 (b) 48		(a) 50 (b) 35
	(c) 72 (d) 96		(c) 15 (d) 20
61.	If × stands for addition, < for subtraction, + stands for division,	71.	The average age of father and his son is 22 years. The ratio
	> stands for multiplication, - stands for equal, ÷ stands for greater than, and = stands for less than, state which of the		of their ages is 10: 1 respectively. What is the age of the son?
			(SSC CGL 1 <sup>st</sup> Sit. 2013)
	following is true? (SSC CGL 1 <sup>st</sup> Sit. 2013)		(a) 24 (b) 4
	(1) $3 \times 2 < 4 \div 16 > 2 + 4$ (2) $5 > 8 + 4 = 10 < 4 \times 8$		(c) 40 (d) 14
	(3) $3 \times 4 > 2 - 9 + 3 < 3$ (4) $5 \times 3 < 3 \div 8 + 4 \times 1$	72.	In a certain code, LONDON is coded as
	(a) Only 1 is true (b) Only 2 is true		24 - 30 - 28 - 8 - 30 - 28. How will FRANCE be coded?
(2	(c) Both 2 and 4 is true (d) Only 3 is true		(SSC CGL 1st Sit. 2013)
62.	If $55 + 66 = 33$ and $22 + 99 = 33$ , what is $44 + 88$ ?		(a) $10-24-6-28-6-12$
	(SSC CGL 1 <sup>st</sup> Sit. 2013)		(b) $12-26-6-28-8-10$
<i>(</i> 2	(a) 33 (b) 36 (c) 38 (d) 40		(c) $12-36-2-28-6-10$
63.	r · · · · · · · · · · · · · · · · · · ·		(d) $12-26-2-28-8-10$
	account of a leak at the tank, it takes 3 more hours to fill the tank. How long will the leak take to empty the full tank when	73.	If $29 \times 48 = 576$ , $35 \times 16 = 90$ , $22 \times 46 = 96$ , then
	pipe A is closed/shut? (SSC CGL 1st Sit. 2013)		$42 \times 17 = ?$ (SSC CGL 1 <sup>st</sup> Sit. 2013)
	(a) 13 hours 20 minutes (b) 7.5 hours		(a) 56 (b) 286
	(c) 14 hours 40 minutes (d) 12 hours 20 minutes		(c) 48 (d) 64

,	denotes 'added to' and '! should be the correct re		83.	A Woman has only 25 pa has 40 coins which total p coins is	rupees	(SSC S	
	12P6M 15 T 16 B 4?	(SSC CGL 1st Sit. 2013)		(a) 15	(b)		
	(a) 70	(b) 75		(c) 11	(d)		
75.	= Equal to,   = Less than	(d) 110 Not greater than, —= Not less than, × and L = Not equal to, then of A   B × g is true? (SSC CGL 1 <sup>st</sup> Sit. 2013)	84.	The age of Sunita's father age. After 8 years, the atthat of her age. What is	ge of l	her father	will be three times
	(a) B+C   A	(b) C-B+A		(a) 24 years	(b)	20 years	
	(c) B A C	(d) A \phi B   C		(c) 18 years		16 years	
76.		hich would be a correct inference	85.	If $5+7=21$ and $9+4=3$			
	from the given premises	s stated according to the following			,		(SSC Steno. 2013)
	symbols:			(a) 41	(b)	51	(,
	'A' stands for not greater	r than		(c) 61	(d)		
	'B' stands for equal to		86	If $532 + 781 = 21$ and $862$			n what is the value of
	'C' stands for less than		00.	796 + 355 = ?		21, 110	(SSC Steno. 2013)
	'D' stands for not less th	an		(a) 21	(b)	30	(000 00000 2010)
	'E' stands for not equal t	o (SSC CGL 1 <sup>st</sup> Sit. 2013)		(c) 31	(d)		
	'F' stands for greater than	Premises (2 M B N) and (2N A 3K)	87	If '-' stands ÷; '+' stand			ands for '_' and 'x'
	(a) 2MD3K	(b) 2MB3K	67.	stands for '+', which on			
	(c) 2MC3K	(d) 2KB3N		stands for . , which on	01 11	10 10110 111	(SSC Steno. 2013)
77.	Rahim and his uncle diff	fer in their ages by 30 years. After 7		(a) $10+5-5\div 5\times 5=1$	0		(SSC Stello: 2013)
	years, if the sum of their	ages is 66, what will be the age of the		()			
	uncle?	(SSC CHSL 2013)		(b) $10-5+5\div 5\times 5=$			
	(a) 39	(b) 41		(c) $10 \times 5 \div 5 + 5 - 5 =$	: 0		
	(c) 51	(d) 49		(d) $10 \div 5 \times 5 \div 5 = 5$			
	RECTIONS: In question	s no. 78 and 79, some equations are tin system. On the same basis, find	88.	Praveen is twice as old Deepak. If Deepak is 12			
	the correct answer for the			(-) O	4.5	0	(000000000000)
Out	the correct answer for the	e unsolved equation.		(a) 9	(b)	8	
out	the correct answer for the			(a) 9 (c) 11	(b) (d)		
		(SSC CHSL 2013)	89.	(c) 11	(d)	6	means ×. then 18 p 6
78.	If 782=20		89.	(c) 11 If p means -, q means +, 1	(d)	6	
	If 782=20 and 671=17, then		89.	(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ?	(d) mear	6 ns÷and s	means ×, then 18 p 6 (SSC Steno. 2014)
	If 782=20 and 671=17, then 884=?	(SSC CHSL 2013)	89.	(c) 11 If p means -, q means +, 1	(d) r mear (b)	6	
	If 782=20 and 671=17, then 884=? (a) 26	(SSC CHSL 2013) (b) 23		(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24 (c) 26	(d) r mear (b) (d)	6 ns÷and s 12 128	(SSC Steno. 2014)
78.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32	(SSC CHSL 2013)  (b) 23 (d) 19		(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24	(d) r mear (b) (d)	6 ns÷and s 12 128	(SSC Steno. 2014) 8-5-3=?
78.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5	(SSC CHSL 2013)  (b) 23 (d) 19		(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24 (c) 26 If 9 - 8 - 7 = 876, 6 - 4	(d) r mear (b) (d) -2=	6 ns÷ands 12 128 531, then	(SSC Steno. 2014)
78.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=?	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,		(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24 (c) 26 If 9 - 8 - 7 = 876, 6 - 4 (a) 647	(d) r mear (b) (d) -2 = (b)	6 ns÷ands 12 128 531, then	(SSC Steno. 2014) 8-5-3=?
78.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847	(SSC CHSL 2013)  (b) 23 (d) 19 = 536, (b) 784	90.	(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24 (c) 26 If 9 - 8 - 7 = 876, 6 - 4 (a) 647 (c) 742	(d) r mear (b) (d) -2 = (b)	6 ns÷ands 12 128 531, then	(SSC Steno. 2014) 8-5-3=?
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478	90.	(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24 (c) 26 If 9 - 8 - 7 = 876, 6 - 4 (a) 647	(d) r mear (b) (d) -2 = (b)	6 ns÷ands 12 128 531, then	(SSC Steno. 2014) 8-5-3=?
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct comb	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to	90.	(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24 (c) 26 If 9 - 8 - 7 = 876, 6 - 4 (a) 647 (c) 742 If '-' denotes '+'	(d) r mear (b) (d) -2 = (b)	6 ns÷ands 12 128 531, then	(SSC Steno. 2014) 8-5-3=?
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×54 4×8×7=? (a) 847 (c) 748 Select the correct compreplace * signs and to be	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.	90.	(c) 11  If p means -, q means +, 1  q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+'  '+' denotes 'x'	(d) r mear (b) (d) -2 = (b)	6 ns÷ands 12 128 531, then	(SSC Steno. 2014) 8-5-3=?
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct combreplace * signs and to be 9 * 7 * 2 * 3 * 10	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)	90.	(c) 11 If p means -, q means +, 1 q 4 s 6 r 2 = ? (a) 24 (c) 26 If 9 - 8 - 7 = 876, 6 - 4  (a) 647 (c) 742 If '-' denotes '+' '+' denotes 'x' '+' denotes '-'	(d) r mear (b) (d) -2 = (b) (d)	6 ns ÷ and s 12 128 531, then 741 572	(SSC Steno. 2014) 8-5-3=? (SSC Steno. 2014)
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct combined and the selection of the s	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013) (b) $-\div \times =$	90.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '×' denotes '-' '×' denotes '-'	(d) mear (b) (d) -2 = (b) (d) (d)	6 ns ÷ and s 12 128 531, then 741 572	(SSC Steno. 2014) 8-5-3=?
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct combined replace * signs and to be 9 * 7 * 2 * 3 * 10 (a) +-×= (c) ÷×+=	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷=	90.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '×' denotes '-' 'x' denotes '÷' then 27 × 3 ÷ 6 + 9 - 8 =	(d) mear (b) (d) -2 = (b) (d) (d)	6 ns÷ands 12 128 531, then 741 572	(SSC Steno. 2014) 8-5-3=? (SSC Steno. 2014)
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78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct combreplace * signs and to be 9*7*2*3*10 (a) +-×= (c) ÷×+= If '+' denotes ÷, '-' denotes +, then	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes	90.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '×' denotes '-' 'x' denotes '-' then 27 × 3 ÷ 6 + 9 - 8 =  (a) 53 (c) 15	(d) r mear (b) (d) -2= (b) (d) (d) ? (b) (d) ct ma	6 ns÷ands 12 128 531, then 741 572 (SSC 3.5 14.5	(SSC Steno. 2014) 8-5-3=? (SSC Steno. 2014)
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct combination of the select the select the select the correct combination of the select the correct combination of the select the correct combination of the select the select the correct combination of the select the sele	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)	90.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+'  '+' denotes '-'  '×' denotes '-'  'x' denotes '-'  then 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the corre	(d) r mear (b) (d) -2= (b) (d) (d) ? (b) (d) ct ma	6 ns÷ands 12 128 531, then 741 572 (SSC 3.5 14.5	(SSC Steno. 2014) 8-5-3=? (SSC Steno. 2014)
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct combination of the select the select the select the correct combination of the select the select the select the correct combination of the select	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= bites ×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)  (b) 14	90.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+'  '+' denotes '-'  '×' denotes '-'  'x' denotes '-'  then 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the corresinserted in the following 4 6 2 4 8 = 30  (a) ++-×	(d) r mear (b) (d) -2= (b) (d) (d) ct ma	6 ns÷ands 12 128 531, then 741 572 (SSC 3.5 14.5	(SSC Steno. 2014)  8-5-3=? (SSC Steno. 2014)  C Steno. 2016)  al signs that can be
78. 79.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct combination of the select the select the select the correct combination of the select the correct combination of the select the correct combination of the select the select the correct combination of the select the sele	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)	90.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '×' denotes '-' 'x' denotes '-' then 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the correinserted in the following 4 6 2 4 8 = 30	(d) r mear (b) (d) -2= (b) (d) (d) ? (b) (d) ct ma	6 ns÷ands 12 128 531, then 741 572 (SSC 3.5 14.5 thematica	(SSC Steno. 2014)  8-5-3=? (SSC Steno. 2014)  C Steno. 2016)  al signs that can be
78. 79. 80.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct comfreplace * signs and to be 9*7*2*3*10 (a) +-×= (c) ÷×+= If '+' denotes ÷, '-' denotes +, then 35+7-5÷5×6=? (a) 20 (c) 36 3 daily wage workers A, I	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)  (b) 14 (d) 24 B and C are distributed` 178 in such	90. 91. 92.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '*' denotes '-' '*' denotes '-' '*' denotes '-' 'hen 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the corresinserted in the following 4 6 2 4 8 = 30  (a) ++-×  (c) -×++  Select the correct comb	(d) r mear (b) (d) -2= (b) (d) (d) (ct ma (f) (d) (d) (d) (oinatio	6 ns÷and s 12 128 531, then 741 572  (SSC 3.5 14.5 thematica ×+-+ ++×- on of mai	(SSC Steno. 2014)  8-5-3=? (SSC Steno. 2014)  C Steno. 2016)  al signs that can be (SSC Steno. 2016)  thematical signs to
78. 79. 80.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct comfreplace * signs and to be 9*7*2*3*10 (a) +-×= (c) ÷×+= If '+' denotes ÷, '-' denotes +, then 35+7-5÷5×6=? (a) 20 (c) 36 3 daily wage workers A, If a way that A gets `4 less	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)  (b) 14 (d) 24  B and C are distributed` 178 in such than C, B gets` 15 more than A and	90. 91. 92.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '*' denotes '-' '*' denotes '-' '*' denotes '-' 'then 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the correct inserted in the following 4 6 2 4 8 = 30  (a) ++-×  (c) -×++  Select the correct combreplace * signs and to be	(d) r mear (b) (d) -2= (b) (d) (d) (ct ma (f) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	6 ns÷and s 12 128 531, then 741 572  (SSC 3.5 14.5 thematica  ×+-+ ++×- on of maithe follow	(SSC Steno. 2014)  8-5-3=? (SSC Steno. 2014)  C Steno. 2016)  al signs that can be (SSC Steno. 2016)  thematical signs to
78. 79. 80.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct comfreplace * signs and to be 9*7*2*3*10 (a) +-×= (c) ÷×+= If '+' denotes ÷, '-' denotes +, then 35+7-5÷5×6=? (a) 20 (c) 36 3 daily wage workers A, If a way that A gets `4 less	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)  (b) 14 (d) 24  B and C are distributed ` 178 in such than C, B gets ` 15 more than A and What is the ratio of their shares?	90. 91. 92.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '*' denotes '-' '*' denotes '-' '*' denotes '-' 'hen 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the corresinserted in the following 4 6 2 4 8 = 30  (a) ++-×  (c) -×++  Select the correct comb	(d) r mear (b) (d) -2= (b) (d) (d) (ct ma (f) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	6 ns÷and s 12 128 531, then 741 572  (SSC 3.5 14.5 thematica  ×+-+ ++×- on of mar the follow 15*2	(SSC Steno. 2014)  8-5-3=? (SSC Steno. 2014)  C Steno. 2016)  al signs that can be (SSC Steno. 2016)  thematical signs to wing equation:
78. 79. 80.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct comireplace * signs and to be 9*7*2*3*10 (a) +-×= (c) ÷×+= If '+' denotes ÷, '-' denotes +, then 35+7-5÷5×6=? (a) 20 (c) 36 3 daily wage workers A, I a way that A gets `4 less C gets `11 less than B. V	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)  (b) 14 (d) 24  3 and C are distributed ` 178 in such than C, B gets ` 15 more than A and What is the ratio of their shares?  (SSC CHSL 2013)	90. 91. 92.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '*' denotes '-' '*' denotes '-' '*' denotes '-' '*' then 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the correct inserted in the following 4 6 2 4 8 = 30  (a) + + - ×  (c) - × + +  Select the correct combine replace * signs and to be 35 * 7	(d) (d) (e) (e) (e) (f) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	6 ns÷and s  12 128 531, then  741 572  (SSC 3.5 14.5 thematica  ×+-+ ++×- on of mar the follow 15*2 (SSC)	(SSC Steno. 2014)  8-5-3=? (SSC Steno. 2014)  C Steno. 2016)  al signs that can be (SSC Steno. 2016)  thematical signs to wing equation:  Multitasking 2014)
78. 79. 80.	If 782=20 and 671=17, then 884=? (a) 26 (c) 32 5×6×4=456, 3×6×5 4×8×7=? (a) 847 (c) 748 Select the correct comfreplace * signs and to be 9*7*2*3*10 (a) +-×= (c) ÷×+= If '+' denotes ÷, '-' denotes +, then 35+7-5÷5×6=? (a) 20 (c) 36 3 daily wage workers A, If a way that A gets `4 less	(SSC CHSL 2013)  (b) 23 (d) 19 = 536,  (b) 784 (d) 478 bination of mathematical signs to alance the given equation.  (SSC CHSL 2013)  (b) -÷×= (d) -+÷= otes×, '×' denotes – and '÷' denotes  (SSC CHSL 2013)  (b) 14 (d) 24  B and C are distributed ` 178 in such than C, B gets ` 15 more than A and What is the ratio of their shares?	90. 91. 92.	(c) 11  If p means -, q means +, 1 q 4 s 6 r 2 = ?  (a) 24  (c) 26  If 9 - 8 - 7 = 876, 6 - 4  (a) 647  (c) 742  If '-' denotes '+' '+' denotes '-' '*' denotes '-' '*' denotes '-' '*' denotes '-' 'then 27 × 3 ÷ 6 + 9 - 8 =  (a) 53  (c) 15  What will be the correct inserted in the following 4 6 2 4 8 = 30  (a) ++-×  (c) -×++  Select the correct combreplace * signs and to be	(d) (d) (e) (e) (e) (f) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	6 ns ÷ and s  12 128 531, then  741 572  (SSC 3.5 14.5 thematica  ×+-+ ++×- on of mar the follor 15 * 2 (SSC I ÷ +=×	(SSC Steno. 2014)  8-5-3=? (SSC Steno. 2014)  C Steno. 2016)  al signs that can be (SSC Steno. 2016)  thematical signs to wing equation:  Multitasking 2014)

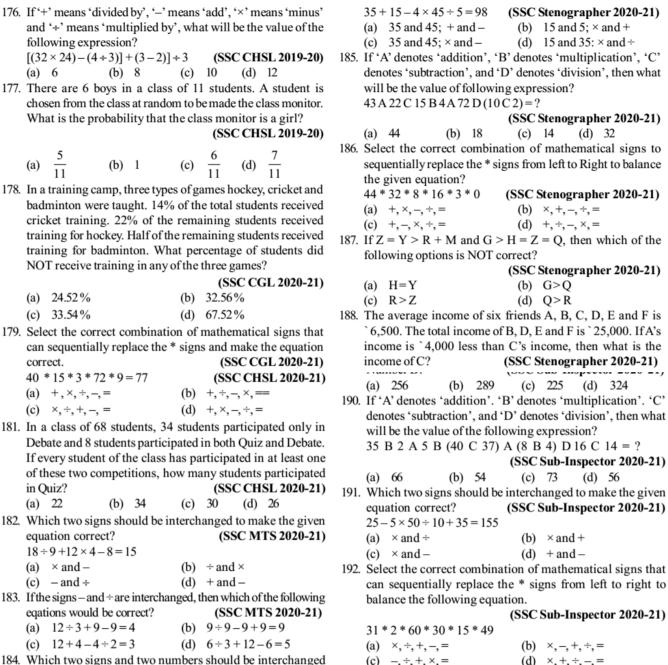
94.	Find the correct answer for the unsolved equation on that basis.	104.			38 on of mathematical signs to
	If $7 \times 9 \times 6 \times 5 = 5 \times 7 \times 4 \times 3$ , then $8 \times 4 \times 14 \times 12 = ?$ (SSC Multitasking 2014) (a) $5 \times 3 \times 7 \times 10$ (b) $6 \times 3 \times 9 \times 11$		replace * signs and to be $12 * 3 * 4 = 6 * 8 * 8$ (a) +, ×, -, ×		(SSC Sub. Ins. 2014)
05	(c) $6 \times 2 \times 12 \times 10$ (d) $6 \times 4 \times 8 \times 9$		(c) ×,+,×,-		×, -, ×, +
93.	An insect is walking in a straight line. It covers a distance of 15 cm per minute. It comes back 2.5 cm after every 15 cm.	105.			hu. Ramona is half the age of
	How long will it take to cover a distance of 1 metre?		Prabhu. If Mani is sixty,	find o	
	(SSC CGL 2014)		(-) 20	(I-)	(SSC CHSL 2014)
	(a) 6.5 min (b) 8 min		(a) 20 (c) 10	(b) (d)	
96	(c) 10min (d) 12min If 1 candle in box number 1 is placed in box number 2, then	106.	` /	(u)	24
,,,	box-2 has twice the number of candles that box 1 has.	100.	N=11	0=	13 P=17
	If 1 candle from box-2 is placed in box-1, the box-2 and box-1		Find the letter to be in th	e box	in the relation given:
	have the same number of candles.		$(N \times \boxed{+ M}) \div K =$	31	(SSC CHSL 2014)
	How many candles were there in box-1 and box-2 ? Box-1 Box-2 Box-1 Box-2		(a) L	(b)	· · · · · · · · · · · · · · · · · · ·
	(SSC CGL 2014)		(c) J	(d)	
	(a) [5]:[3] (b) [7]:[5]	107.		, ,	the basis of a certain system.
				d out	the correct answer for the
	(c) 6:4 (d) 5:7		unsolved equation.		(SSC CHSL 2014)
97.			$2 \times 3 \times 4 = 432$ , $7 \times 8 \times 9 = 987$ ,		6 × 7 = 765 5 × 7 = ?
	equation correct? $6 \times 4 + 2 = 16$ (SSC CGL 2014)		$7 \times 8 \times 9 = 987$ , (a) 572		752
				. ,	
	(a) + and ×, 2 & 4 (b) + and ×, 4 & 6 (c) + and ×, 2 & 6 (d) + and ×, 3 & 4	108	(-)		257 region of India decreases year
98.	Select the correct combination of mathematical sings to	100.			ata the trend in decrease.
	replace the * signs and to balance the following equation:		,		(SSC CHSL 2014)
	45 * 3 * 6 * 2 * 16 (SSC CGL 2014)		Year		Rainfall (in mm)
	(a) $+ \times \div =$ (b) $+ \div \times =$ (c) $+ \times -=$ (d) $+ + -=$		2009		26
99.	Select the correct combination of mathematical signs to		2010		25
	replace * signs and to balance the following equation:		2011		23
	8 * 5 * 10 * 2 * 25 (SSC CGL 2014)		2012		20
	(a) $+\times \div =$ (b) $+\div -=$ (c) $\times +=\times$ (d) $\times -=\times$		2013		16
100.	On one side of a street are even numbers and on the other		2014		11
	side are odd numbers. No. 1 is exactly in front of No. 2. My		2015		?
	House is No. 9. From my house, a man comes up from No. 2			(1-)	
	and knocks at the door, five doors beyond the house infront of me. What is the No. of that house?		(a) 6mm	( )	7mm 8mm
	(SSC CGL 2014)	100	(c) 5mm		nd reaches B 15 minutes late
	(a) 18 (b) 20	109.			and 24 minutes late when it
101	(c) 22 (d) 26				between the two stations is
101.	Govind is 48 years old. He is twice as old as his son Prem is now. How old was Prem seven years before?				(SSC CGL 1st Sit. 2015)
	(SSC Sub. Ins. 2014)		(a) 16km	(b)	18km
	(a) 16 (b) 17		(c) 21 km	` '	24km
102	(c) 13 (d) 18 If '-' stands for '+', '+' stands for '×', '×' stands for '-' then	110.			nds for addition; – stands for
102.	which one of the following is not correct?		multiplication: ÷ stands for is correct?	or subt	traction, which of the following
	(SSC Sub. Ins. 2014)			7.4	(SSC CGL 1st Sit. 2015)
	(a) $22+7-3\times9=148$ (b) $33\times5-10+20=228$		A. $46 \times 6 \div 4 - 5 + 3 = 7$		
	(c) $7+28-3\times52=127$ (d) $44-9+6\times11=87$		B. $46-6+4\times5\div3=7$		
103.	Some equations are solved on the basis of a certain system.		C. $46 \div 6 \times 4 - 5 + 3 = 7$		
	Find the correct answer for the unsolved equation on that		D. $46 \times 6 - 4 + 5 \div 3 = 7$		D
	basis. (SSC Sub. Ins. 2014) 5 * 6 = 35, 8 * 4 = 28, 6 * 8 = ?		(a) D	(b)	
	0 00,0 7 20,0 0 1		(c) A	(d)	C

6 www.jkchrome.com www.jkchrome.com www.jkchrome.com

111. If $+=\times, -=\div, \times=+, \div=-$ , then which is the correct equation out of the following? (SSC CGL 1 <sup>st</sup> Sit. 2015)	120. Change the symbol and solve accordingly to find out correct answer from the alternatives given below $9 \times 8 \times 7 = 24, 4 \times 7$
(a) $18 \div 6 + 4 - 2 \div 3 = 22$	$\times 3 = 14, 2 \times 1 \times 9 = ?$ (SSC Sub. Ins. 2015)
	(a) 12 (b) 11
(b) $18+6-4\times 2 \div 3 = 26$	(a) 12 (b) 11 (c) 18 (d) 10
(c) $18 \times 6 - 4 + 7 \times 8 = 47$	
(d) $18-6\times7\div2+8=63$	121. If '-' stands for addition, '+' stands for multiplication, '÷'
112. Find the number that is common for all of the clue's given below: (SSC CGL 1st Sit. 2015)	stands for subtraction and 'x' stands for division, which one of the following equations is correct? (SSC CHSL 2015)
(A) Virgo	(a) $5+2-12\times 6 \div 2=10$ (b) $5\div 2+12\times 6-2=4$
(B) Volleyball	(c) $5-2+12\times 6 \div 2=27$ (d) $5+2-12\div 6\times 2=13$
(C) Highest scoring shot of a particular sport	122. If P denotes ÷ Q denotes ×, R denotes + and S denotes -,
(D) Extra sensory perceptions.	then 16Q12P6R5S4? (SSC CHSL 2015)
(a) 8 (b) 4	(a) 32 (b) 33
(c) 2 (d) 6	(c) 30 (d) 31
113. To identify the correct response from the given premises	123. Some equations have been solved on the basis of certain
stated according to following symbols.	system. Find the correct answer for the unsolved equations
'A' stands for not less that $(<)$	on that basis? (SSC CHSL 2015)
	If $72 \times 19 = 23$ , $13 \times 48 = 35$ and $16 \times 43 = 18$ then $39 \times 22 = ?$
'B' stands for not equal to (≠)	(a) 27 (b) 51
'C' stands for not greater than $(\ge)$	(c) 31 (d) 21
'D' stands for greater than (>)	124. If + means ÷, ÷ means ×, and × means +, then following will
'E' stands for less than (<)	be:
'F' stands for equal to (=)	$64 + 8 \times 32 \div 4$ (SSC CHSL 2015)
Premises 4YF3x and 3xF6Z (SSC CGL 1st Sit. 2015)	(a) 128 (b) 160
(a) 2YF3Z (b) 4YB5Z	
(c) 2YD3Z (d) 2YE3Z	(c) 136 (d) 144 125. If 'x' means 'addition', '-' means 'division', '/' means
114. If'+' means 'x', '-' means '\ddot', 'x' means '-' and '\dot' means '+', then	'subtraction' and '+' means 'multiplication', then which of
what will be the value of $16 \div 64 - 8 \times 4 + 2$ ?	the equation is correct (SSC CGL 1st Sit. 2016)
(SSC CGL 1 <sup>st</sup> Sit. 2015)	(a) $25+10-5/10\times 3=43$
(a) 12 (b) 24	(a) $25 + 10 - 37 \cdot 10 \times 3 - 43$ (b) $25 - 10 \times 5 + 10/3 = 72$
(c) 16 (d) 18	(c) $25 \times 10/5 + 10 - 3 = 12$
115. Two persons A and B get the same salary. Their Basic pay	(d) $25/10/5 + 10-5-12$ (d) $25/10+5 \times 10/3 = 18$
are different. The allowances are 65% and 80% of the basic	126. In this question, some equations are solved on the basis of
pay respectively. What is the ratio of the basic pay?	a certain system. On the same basis find out the correct
(SSC Sub. Ins. 2015)	answer from amongst the four alternatives for the unsolved
(a) 7:5 (b) 17:15	equation.
(c) 12:11 (d) 11:10	53-34=5334
116. A man climbing up a wall of 24 metres high, climbs 16 m on	65-46=6456
one day but slipped back by 3m 40cms in the evening. How	75-24=? (SSC CGL 1 <sup>st</sup> Sit. 2016)
far had the man reached on that day? (SSC Sub. Ins. 2015)	(a) 7542 (b) 7524 (c) 7452 (d) 7254
(a) 12.6m (b) 19 m 40 cm	127. If '+' means '/', '/' means '-', '-' means '×', '×' means '+',
(c) 12 m 40 cm (d) 11.4 m	then $24 + 8/2 - 6 \times 6 = ?$ (SSC CGL 1 <sup>st</sup> Sit. 2016)
117. Two horses A and B run at a speed of 3:2 ratio in the first lap;	(a) -10 (b) -3
during the second lap the ratio differs by 4:7; during the	(c) 12 (d) 21
third lap the ratio differs by 8:9. What is the difference in	128. In this question, some equations are solved on the basis of
ratio of speed altogether between the two horses.	a certain system. On the same basis find out the correct
(SSC Sub. Ins. 2015)	answer from amongst the four alternatives for the unsolved
	equation.
	$7 \times 6 \times 8 = 678$
(c) 4 (d) 1	$8 \times 9 \times 7 = 987$
118. If a represents ÷, 'b' represents +, 'c' represents – and 'd' represents × then 24a 6d 4b 9c 8 = ? (SSC Sub. Ins. 2015)	$6 \times 5 \times 7 = 567$
. ,	$5 \times 4 \times 6 = ? \qquad (SSC CGL 1st Sit. 2016)$
(a) 6 (b) 17	(a) 456 (b) 564
(c) 20 (d) 19	(c) 645 (d) 654
119. Some equations are solved on the basis of certain system.	129. If 'x' means addition, '-' means division, '÷' means subtraction
find out the correct answer for the unsolved equation on	and '+' means multiplication, then which of the equations is
that basis: $7 \times 6 \times 4 = 674$ , $8 \times 5 \times 3 = 583$ , $9 \times 1 \times 2 = ?$	correct? (SSC CGL 1 <sup>st</sup> Sit. 2016)
(SSC Sub. Ins. 2015)	(a) $16 \times 5 \div 10 + 4 - 3 = 19$
(a) 727 (b) 292	(a) $16 \times 3 \times 10 \times 4 - 3 = 19$ (b) $16 + 5 \div 10 \times 4 - 3 = 9$
(c) 192 (d) 462	(c) $16+5-10\times 4\div 3=9$
	(d) $16-5\times10\div4+3=12$



	In the following question, by operators will the expression by 14?2?4?6?4			Which two signs should be following equation correct? $18 + 12 \times 8 - 6 \div 3 = 9$	interchanged to make the (SSC Sub. Ins. 2018)
		(b) $\div$ , $\times$ , $>$ and $\times$	,	(a) $+$ and $\times$	(b) ÷ and +
		(d) $\div$ , +, > and ×		(c) − and ×	(d) $\times$ and $\div$
153.	In the following question, co- changing two signs.		er-	Which two numbers should given equation correct? $9+4 \div 2-6 \times 3=4 \div 3 \times 6-9$	(SSC Sub. Ins. 2018)
	$43+9-6 \div 3 \times 8 = 50$	4) . 1		(a) 6 and 4	(b) 4 and 9
		(b) + and ÷		(c) 4 and 2	(d) 6 and 3
		(d) - and ×	166	Which of the following interc	
154.	If 4 * 9 % 2 = 47 and 9 * 0 % 6			would make the given equation	
	( ) 40 4 4 5	(SSC Sub. Ins. 201	7)	12 - 4 - 2 - 6 - 2 - 2 - 12 - 6	(SSC Sub. Ins. 2018)
		(c) 42 (d) 46		$12 \div 4 + 2 - 6 \times 3 = 3 \div 12 + 6 \times 12 $	(2-4) (b) $\div$ and $+$ , $6$ and $4$
155.	If $1/4/3 = 254$ and $3/6/8 = 479$ ,			(a) $\times$ and $\div$ , 4 and 6 (d)	- and +, 6 and 4
	( )	(SSC Sub. Ins. 201 (c) 368 (d) 638	. <b>7)</b> 167.	If 'A' is replaced by '+'; if 'B' is by '+'; and 'D' replaced by '>	replaced by '-'; 'C' is replaced
156.	If $85 \times 5 - 3 = 20$ and $18 \times 2 - 1$	•	_	following equation.	(SSC Stenographer 2018)
	( ) 15 ( ) 20	(SSC Stenographer 201	.7)	20A15C3D8B9	,
	.,	(c) 10 (d) 13	_	(a) 65 (b) 51	(c) 55 (d) 53
	By interchanging which two correct?		100	Find out the two signs to be following equation correct:	e interchanged for making (SSC Stenographer 2018)
	$25 + 18 \div 2 - 4 = 20$	(SSC Stenographer 201)	7)	25+5'7-12,3=26	
	. ,	(b) ÷ and −		(a) + and –	(b) $+$ and $\times$
	(c) + and -	(d) None of these		(c) + and ÷	(d) − and ÷
158.	Present ages of A and B are in r will be twice the age of C. If C years ago, then what is the pr	celebrated his 10th birthda		Find out the two signs to be following equation correct. $5+3\times4-12\div2=-1$	(SSC Stenographer 2018)
		(SSC Stenographer 201	17)	(a) + and –	(b) $+$ and $\times$
	(a) 14 (b) 21	(c) 28 (d) 42		(c) + and ÷	(d) ×and÷
159.	Nisha and Deepak are a marrie		ter 170	. If 'A' is replaced by '+'; if '	
	named Tanya. Currently, Deep			replaced by '÷'; and 'D' replaced following equation.	(SSC Stenographer 2018)
	and Nisha is thrice the age of T			51C17D15A22B34	(SSC Stellographer 2016)
	what was her father's age at the			(a) 45 (b) 55	(c) 33 (d) 65
		(SSC CGL 201	l <b>8)</b> 171	. Which two numbers should be i	interchanged to make the given
	(a) 35 years	(b) 25 years		equation correct?	(SSC CGL 2019-20)
160		(d) 20 years		$9 + 7 \times 5 - 18 \div 2 = 3 \times 4 - 10 + 10$	
160.	Which two signs should be in equation to make it correct?	(SSC CGL 201		(a) 7 and 4	(b) 9 and 3
	$8 \times 2 + 5 - 16 \div 4 = 14$	(SSC CGL 201	-	<ul><li>(c) 18 and 45</li><li>The ratio of the present ages of</li></ul>	(d) 2 and 5
	(a) $\times$ and $-$	(b) $\times$ and +	1/2	difference between their ages	
	(c) ÷and×	(d) ÷ and +		Lata's age will be after 5 years	
161.	The sum of the current ages of	( /	rs.	(a) 40 (b) 35	(c) 41 (d) 45
1011	After 5 years, Shipra's age will			. In the following equations, if '-	
	age. What is Malini's current			'6' is interchanged with '7', t	
	(a) 25 years	(b) 30 years		correct?	(SSC CGL 2019-20)
	(c) 15 years	(d) 20 years		(a) $76 - 75 + 77 = 56$	(b) $62-67+76=83$
162.	Which two signs should be	e interchanged to make t	he 174	(c) $67 - 76 + 43 = 100$	(d) $78-68+66=59$
	following equation correct?	(SSC CGL 201	1/4	. Which two signs need to be	e interchanged to make the
	$5 + 16 - 4 \times 14 \div 2 = 59$	`		following equation correct?	(SSC MTS 2010 20)
	(a) × and +	(b) ÷ and ×		$73 - 13 \times 42 \div 14 + 56 = 56$	(SSC MTS 2019-20)
	(c) + and –	(d) ÷ and –		(a) + and ×	(b) × and ÷
163.	Which two signs should be in	` /	ing 174	(c) - and +	(d) - and ×
	equation to make it correct?	(SSC CHSL 20		5. If the two signs, '+ and ÷' as	
	$15 + 15 - 2 \times 10 \div 35 = 16$	,	,	following equations will be cor (a) $16 \div 9 + 4 \times 8 = 34$	rect? (SSC MTS 2019-20) (b) $16 \div 21 + 13 \times 26 = 56$
	(a) + and –	(b) × and ÷		(a) $10 \div 9 + 4 \times 8 = 34$ (c) $11 + 13 \times 4 \div 2 = 37$	(d) $13 \times 9 + 16 \div 2 = 125$
	(c) × and –	(d) + and ÷		(0) 11 · 13 · 7 · 2 - 3/	(a) 15) 10.2-125
	3 /				



can sequentially replace the \* signs from left to right to

in the following equation to make it correct?

### **Hints & Solutions**

1. (d)  $(12+6) \times 18 = 36 \Rightarrow (18 \div 6) \times 12 = 36$ 

$$\Rightarrow$$
 3 × 12 = 36

2. (a) As,  $6 \times 5 = 30$ 

$$30 \times 3 + 1 = 91$$

$$8 \times 7 = 56$$

$$56 \times 3 + 1 = 169$$

$$10 \times 7 = 70$$

$$70 \times 3 + 1 = 211$$

Similarly.

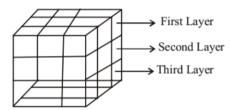
$$11 \times 10 = 110$$

$$110 \times 3 + 1 = \boxed{331}$$

3. (b) Option (b)

$$24 = 4 \times 5 + 4$$
$$\Rightarrow 24 = 20 + 4$$

4. (c)



4 cubes each of the first second and third layers will have paint on two sides only.

Therefore, total number of cubes having paint on two sides.

...(i)

...(ii)

$$= 4 \times 3 = \boxed{12}$$

5. (b) Suppose the present age of Ashok is x years and that of his mother is y years.

$$3(x-5)=(y-5)$$

$$\Rightarrow$$
 3x - 15 = y - 5

$$\Rightarrow$$
 3x - y = 10

5 years hence,

$$2(x+5)=(y+5)$$

$$\Rightarrow$$
 2x + 10 = y + 5

$$\Rightarrow 2x - y = -5$$

From equations (i) and (ii)

$$x = 15$$
 years

 (b) Suppose the number of women boarded the bus at Delhi is x.

Therefore, the number of men = 2x

According to question,

$$2x-10=x+5$$

$$\Rightarrow$$
 2x - x = 10 + 5

$$\therefore x = 15$$

Total number of passengers boarded the bus initially

$$=3x$$

$$= 3 \times 15 = 45$$

7. (b) Suppose there were x passengers initially

Number of passengers after first stop =  $\frac{x}{2} + 35$ 

Number of passengers after second stop

$$=\frac{4}{5}\left(\frac{x}{2}+35\right)+40=80$$

$$\Rightarrow \frac{x}{2} + 35 = \frac{(80 - 40)}{4} \times 5$$

$$\Rightarrow \frac{x}{2} = 50 - 35 = 15$$

8. (d) Suppose the present age of son is x years.

Therefore, present age of the father = 4x years

According to question, 
$$x+3=15$$

$$x = 15 - 3 = 12 \text{ years}$$

The present age of father

$$= 4x = 4 \times 12 = 48$$
 years

:. The present age of man's wife

$$=48-3=45$$
 years

9. (d) As,  $\frac{8}{4} = 2$ ; 2 + 1 = 3

$$\frac{6}{3} = 2; 2 + 3 = 5$$

$$\frac{4}{2} = 2$$
; 2 + 5 = 7

Similary, 
$$\frac{2}{1} = 2 + 7 = 9$$

10. (a) As,  $A = 51 \times 14 = 714$ 

$$\vec{B} = 6\vec{1} \times 15 = 9\vec{1}5$$

$$C = 71 \times 16 = 1136$$

$$\therefore D = 81 \times 17 = \boxed{1377}$$

11. (b) 
$$5 = 15 \div 3$$

12. (a) 
$$25 \times 2 - 6 = 4 \times 11 + 0$$

$$\Rightarrow 50 - 6 = 44 + 0, \Rightarrow 44 = 44$$

13. (d) 5+4=9 and  $9\times 2=18$ 

$$6 + 3 = 9$$
 and  $9 \times 3 = 27$ 

$$12 + 4 = 16$$
 and?

$$=\frac{96}{16}=\boxed{6}$$

14. (c) Suppose his present age is x years.

$$\frac{x}{4} + \frac{x}{5} + \frac{x}{3} = x - 13$$

$$\Rightarrow \frac{15x + 12x + 20x}{60} = x - 13$$

$$\Rightarrow$$
 47x = 60x - 780

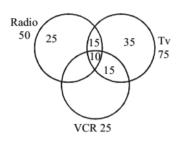
$$\Rightarrow$$
 60x-47x=780

$$\Rightarrow$$
 13x = 780

$$\therefore x = \frac{780}{13} = 60 \text{ years}$$

15. (b) According to question,

Total number of families = 100



So, only 35 families have only TVs.

Suppose total number of workers in the office = x16.

Number of woman workers =  $\frac{x}{2}$ 

.. Number of man workers

$$=x-\frac{x}{3}=\frac{3x-x}{3}=\frac{2x}{3}$$

Number of married woman workers =  $\frac{x}{2} \times \frac{1}{2} = \frac{x}{6}$ 

Number of married woman workers who have children

$$=\frac{x}{6} \times \frac{1}{3} = \frac{x}{18}$$

Number of married man workers =  $\frac{2x}{3} \times \frac{3}{4} = \frac{x}{3}$ 

Number of married man workers who have children =

$$\frac{x}{2} \times \frac{2}{3} = \frac{x}{3}$$

Number of workers who have children

$$=\frac{x}{3}+\frac{x}{18}=\frac{6x+x}{18}=\frac{7x}{18}$$

Number of workers without children

$$=x-\frac{7x}{18}=\frac{18x-7x}{18}=\frac{11}{18}x$$

17. (a) 
$$30-6+5\times 4 \div 2=27$$

$$\Rightarrow$$
 30 ÷ 6 × 5 + 4 - 2 = 27

$$\Rightarrow$$
 25 + 4 - 2  $\Rightarrow$  27 = 27, option (a) is correct

$$30 + 6 - 5 \div 4 \times 2 = 30$$

$$\Rightarrow$$
 30 × 6 ÷ 5 – 4 + 2 = 30

$$\Rightarrow$$
 36 – 4 + 2  $\neq$  30, option (b) is wrong

$$30 \times 6 \div 5 - 4 + 2 = 32$$

$$\Rightarrow 30 + 6 - 5 \div 4 \times 2 \neq 32, \text{ option (c) is wrong}$$
  
\Rightarrow 30 \div 6 \times 5 + 4 - 2 = 40

$$\Rightarrow$$
 30 – 6 + 5 × 4 ÷ 2  $\neq$  40

$$\Rightarrow$$
 30-6+5×4÷2  $\neq$  4

18. (d) 
$$9+7=16$$
;  $9-7=2$ 

$$16 \times 2 = 32$$

$$13+7=20$$
:  $13-7=6$ 

$$20 \times 6 = 120$$

$$17+9=26$$
:  $17-9=8$ 

$$26 \times 8 = 208$$

$$19+11=30;$$
  $19-11=8$ 

$$30 \times 8 = 240$$

19. (c) As, 
$$3.5 + 0.2 = 3.7$$

$$3.7 + 0.4 = 4.1$$

$$4.1 + 0.8 = 4.9$$

$$4.9 + 1.6 = 6.5$$

$$6.5 + 3.2 = 9.7$$

The pattern is as follows: 20. (c)

$$4+4=8$$

$$8 + 8 = 16$$

$$16 + 12 = 28$$

$$44+20=64$$

21. Age of Shan = 55 years (a)

Age of Sathian = 55 - 5 = 50 years

Age of Balan = 
$$50 - 6 = 44$$
 years

Age of Devan = 
$$44 - 7 = 37$$
 years

Difference between the ages of Shan and Devan = 55 -37 = 18 years.

22. (b)  $\Rightarrow$  20% families have own a car.

$$20\% \text{ of } 80 = \frac{20}{100} \times 80 = 16$$

50% of remaining families have own a motorcycle each

$$=(80-16)\times\frac{50}{100}=32$$

The families which do not own any vehicle

$$=80-(32+16)=80-48=32$$

 $9 \times 4 + 1 \times 6 = 36 + 6 = 42$ 

$$8 \times 9 + 2 \times 3 = 72 + 6 = 78$$

Similarly

$$6 \times 3 + 4 \times 5 = 18 + 20 = \boxed{38}$$

24. (a)  $a\nabla b\nabla c$ 

$$\Rightarrow$$
 a < b < c

Option (a)

$$a \Delta b \phi c \Rightarrow a > b \le c \text{ or,}$$

$$a < b \le c$$

Option (b)

$$a \phi b + c \Rightarrow a \le b = c$$
  
Option (c)  
 $a \cdot 0 \cdot b + c \Rightarrow a > b = c$   
Option (d)  
 $a \cdot 0 \cdot b \times c \Rightarrow a > b \ge c$ 

25. (d) 
$$5-4=1; 4-3=1$$
  
 $1+1=2$   
 $6-0=6; 5-1=4$   
 $6+4=10$   
 $6-2=4; 7-2=5$   
 $4+5=\boxed{9}$ 

26. (a) 
$$\begin{array}{|c|c|c|c|} \hline L \Rightarrow \times & M \Rightarrow \div \\ \hline P \Rightarrow + & Q \Rightarrow - \\ \hline \end{array}$$

16 P 24 M 8 Q 6 M 2 L 3 = ?  
⇒ ? = 16 + 24 ÷ 8 - 6 ÷ 2 × 3  
⇒ ? = 16 + 3 - 3 × 3  
⇒ ? = 16 + 3 - 9 = 
$$\boxed{10}$$

27. (a) 
$$16 \Rightarrow (2+2)^2 = (4)^2$$
  
 $9 \Rightarrow (3+0)^2 = (3)^2$   
 $81 \Rightarrow (1+8)^2 = (9)^2$   
Similarly,  $64 \Rightarrow (4+4)^2 = (8)^2$ 

28. (d) Volume of sphere = 
$$\frac{4}{3} \pi r^3$$

Volume of hemisphere =  $\frac{2}{3}\pi r^3$ 

Now.

$$\frac{4}{3}\pi r^3 = \frac{2}{3}\pi r^3$$

or, 
$$\frac{4}{3}$$
r<sup>3</sup> =  $\frac{2}{3}$   $\left(3\sqrt[3]{2}\right)^3$ 

or, 
$$r^3 = \frac{2}{3} \times \frac{3}{4} \times 27 \times 2$$

 $\therefore$  r = 3 cm

29. (c) 
$$6+4=10; 1+4=5; 10-5=5$$
  
 $9+2=11; 3+1=4; 11-4=7$   
 $2+6=8; 1+1=2; 8-2=6$   
 $5+6=11; 2+2=4, 11-4=7$ 

30. (b) 
$$P \Rightarrow \div Q \Rightarrow \times$$

$$R \Rightarrow + S \Rightarrow -$$

$$18 Q 12 P 4 R 5 S 6 = ?$$

⇒ ? = 
$$18 \times 12 \div 4 + 5 - 6$$
  
⇒ ? =  $18 \times 3 + 5 - 6$   
⇒ ? =  $54 + 5 - 6 = 53$ 

$$30 \div 6 = 5; 5 \times 4 = 20$$
  
 $35 \div 7 = 5; 5 \times 5 = \boxed{25}$   
(a) As  $3 + 3 + 4 + 5 = 15 \Rightarrow 1$ 

31. (d) Here,  $25 \div 5 = 5$ ;  $5 \times 3 = 15$ 

32. (a) As, 
$$3+3+4+5=15 \Rightarrow 1+5=6$$
  
and,  $6 \times 5 = 30$   
 $9+0+2+6=17 \Rightarrow 1+7=8$   
and,  $8 \times 5 = 40$   
Similarly,  
 $3+0+4+5=12 \Rightarrow 1+2=3$   
and,  $3 \times 5 = \boxed{15}$ 

Class A = 2x

Now,

$$2x+20+x+30=140$$

$$\Rightarrow$$
 3x = 140 - 50

$$x = \frac{90}{3} = 30$$

Number of Students in Class A  $=2x=2\times30=60$ 

35. (c) Take LCM of 8, 12, 15 and 20

$$\therefore$$
 LCM =  $2 \times 2 \times 3 \times 5 \times 2 = 120$ 

Since the remainder to be left is 2, the number can be given by 120K + 2, where k is a positive integer  $120 \times 1 + 2 = 122(K = 1)$ 

36. (c) 
$$(3+8) \times (1+5)$$
  
 $\Rightarrow 11 \times 6 = 66$   
 $(2+9) \times (3+6)$   
 $\Rightarrow 11 \times 9 = 99$   
Similarly,  
 $(8+2) \times (4+4)$   
 $\Rightarrow 10 \times 8 = 80$ 

37. (d) 
$$\begin{array}{c|cccc} + \Rightarrow \div & - \Rightarrow \times \\ \hline \times \Rightarrow + & \div \Rightarrow - \end{array}$$

$$45+9-3 \times 15 \div 2 \Rightarrow ? = 45 \div 9 \times 3 + 15 - 2 \Rightarrow ? = 5 \times 3 + 15 - 2 \Rightarrow ? = 30 - 2 = 28$$

38. (d) 
$$\boxed{78} + 14 = 92$$
  
 $92 + 21 = 113$   
 $113 + 28 = 141$   
 $141 + 35 = 176$ 

39. (d) Let father's age is x yr.

Son's age is 
$$\frac{x}{4}$$
 yr.

$$x + \frac{x}{4} = 35 \implies x = 28 \text{ yr.}$$

Father's age after 8 year is 36 years.

40. (c) 
$$90 \div 18 \times 6 + 30 - 4 = 56$$

41. (d) As, 
$$73 + 46 = 42$$
  
 $7 - 3 = 4$ ,  $4 + 6 = 10$   
Add  $4 + 10 = 14$   
 $14 \times 3 = 42$   
Similarly,  $6 - 2 = 4$ ,  $8 + 0 = 8$   
 $4 + 8 = 12$   
 $12 \times 3 = 36$ 

42. (a) Series

43. (c)  $D = S \times T$ 

In first case, 
$$20 = S \times T \Rightarrow T = \frac{20}{S}$$
 ... (1)

In second case, 
$$30 = (S + 20) \times T \Rightarrow T = \frac{30}{S + 20} \dots (2)$$

From equation (1) & (2)

$$\frac{20}{S} = \frac{30}{S + 20} \Rightarrow 20S + 400 = 30S \Rightarrow 10S = 400$$

$$\Rightarrow$$
S=40 mph

$$\therefore T = \frac{20}{S} \Rightarrow \frac{20}{40} = \frac{1}{2} \text{ hr or } 30 \text{ minutes}$$

44. (b)  $1 \times 8 \times 5 \times 3 \times 7 = 73581$ 

In this all the multiple are written in reverse direction to get the number

$$\therefore 9 \times 4 \times 3 \times 2 \times 8 = 82349$$

45. (b) 
$$\begin{bmatrix} 6-4=2 \\ 5-3=2 \end{bmatrix}$$
 Addition = 4

$$\begin{bmatrix}
8-6=2\\4-2=2
\end{bmatrix}
Addition=4$$

Similarly, 
$$\begin{vmatrix}
8-3=5\\7-2=5
\end{vmatrix}$$
 Addition=10

46. (b) The expression is:  $30K \times 2Q \times 3J \times 5$  $\Rightarrow 30 \div 2 + 3 \times 6 - 5$ 

$$\Rightarrow 15 + 3 \times 6 - 5 \Rightarrow 15 + 18 - 5$$
$$\Rightarrow 33 - 5 = 28$$

47. (b) The expression is:

8 I 12 He 16 You 2 we 10 $\Rightarrow 8 \times 12 + 16 \div 2 - 10$ 

 $\Rightarrow 8 \times 12 + 8 - 10$  $\Rightarrow 104 - 10 = 94$ 

48. (a) Suppose the present age of Arun is 4x years and that of Deepak is 3x years.

6 years hence,

Arun's age = 4x + 6 = 26

$$\Rightarrow 4x = 26 - 6$$

$$x = \frac{20}{4} = 5$$

 $\therefore$  Present age of Deepak = 3x = 15 years

49. (d) 
$$235 \Rightarrow (2)^2 + (3)^2 + (5)^2 = 38$$

$$452 \Rightarrow (4)^2 + (5)^2 + (2)^2 = 45$$

$$345 \Rightarrow (3)^2 + (4)^2 + (5)^2 = 50$$

50. (b) 
$$\times 2 \downarrow \times 3 \downarrow 4 \times 3 \downarrow 9$$

$$\begin{array}{ccc}
5 & \times & 6 \\
\times 5 \downarrow & \times 6 \downarrow \\
25 & 36
\end{array}$$

$$\begin{array}{ccc}
1 & \times & 9 \\
\times 1 \downarrow & \times 9 \downarrow \\
1 & & 81
\end{array}$$

$$\begin{array}{ccc}
4 & \times & 7 \\
\times 4 \downarrow & \times 7 \downarrow \\
16 & 49
\end{array}$$

51. (d) 
$$\times \Rightarrow + \div \Rightarrow -$$

$$14 \times 4 \div 70 + 10 - 2 = ?$$

$$\Rightarrow ? = 14 + 4 - 70 \div 10 \times 2$$

$$\Rightarrow ? = 14 + 4 - 7 \times 2$$

$$\Rightarrow ? = 18 - 14 = \boxed{4}$$

$$\Rightarrow 5 \times 5 + 5 = 3 \times 10$$
$$\Rightarrow 30 = 30$$

53. (b) 
$$8+2 \div 3-4 \times 6$$
  
 $\Rightarrow 8 \div 2-3 \times 4+6$   
 $\Rightarrow 4-12+6$   
 $\Rightarrow -2$ 

54. (b) 
$$16 - 8 \div 1 = 8$$

56. (b) 
$$4 \times 2 \times 6 = 1626 = (4^2)26 = 1626$$
  
 $3 \times 7 \times 4 = 974 \Rightarrow (3^2)74 = 974$   
 $\therefore 5 \times 6 \times 8 = (5^2)68 = 2568$ 

57. (a) By checking options 
$$36 \div 6 \times 3 + 2 = 6 \times 3 + 4 = 6 \times 3 +$$

$$36 \div 6 \times 3 + 2 = 6 \times 3 + 2$$

$$\Rightarrow 20 = 20$$

58. (a) Son's age = 
$$6$$
 yrs.  
Father's age =  $30$  yrs.

Let 'x' be the yr. after which father will be 4 times as old as his son.

According to question

$$30 + x = 4(6 + x) = 30 + x = 24 + 4x$$

$$\Rightarrow$$
 6 = 3x.

x=2.

Hence, require year is 2 yrs.

59. (b) The nearest perfect square less than 2486 is 2401.

$$2486 - |85| = 2401 = 49 \times 49$$

60. (c) 
$$(6+12) \times 4 \Rightarrow 18 \times 4 = \boxed{72}$$

×⇒	+	<⇒ -	+ ⇒ ÷	>⇒×
-=	>=	÷ ⇒>	=⇒<	

form (1)

$$3 \times 2 < 4 \div 16 > 2 + 4$$

$$\Rightarrow$$
 3 + 2 - 4 > 16 × 2 ÷ 4

$$\Rightarrow 5 - 4 > \frac{16 \times 2}{4} \Rightarrow 1 > 8 \text{ (not possible)}$$

$$5 > 8 + 4 = 10 < 4 \times 8$$

$$\Rightarrow$$
 5 × 8 ÷ 4 < 10 – 4 + 8

$$\Rightarrow$$
 5 × 2 < 18 – 4  $\Rightarrow$  10 < 14

form(3)

$$3 \times 4 > 2 - 9 + 3 < 3$$

$$\Rightarrow$$
 3 + 4 × 2 = 9 ÷ 3 – 3

$$\Rightarrow$$
 3 + 8  $\neq$  3 - 3

from(4)

$$5 \times 3 < 3 \div 8 + 4 \times 1$$

$$\Rightarrow$$
 5+3-3>8÷4+1

$$\Rightarrow$$
 8 - 3 > 2 + 1

$$\Rightarrow$$
 5 > 3

Both (2) and (4) are correct.

62. (b)  $55+66 \Rightarrow 5+6=11$ 

$$11 \times 3 = 33$$

$$22 + 99 \Rightarrow 2 + 9 = 11$$

$$11 \times 3 \Rightarrow 33$$

Similarly,

$$44 + 88 \Rightarrow 4 + 8 = 12$$

$$12 \times 3 = 36$$

(a) Pipe A can fill a tank completely in 5 hours. On account of a leak at the tank, it takes 5 + 3 = 8 hours to fill the tank. Time taken by the leak to empty the full tank

$$=\frac{5\times8}{8-5}=\frac{40}{3}=13$$
 hours 20 minutes

(c) 
$$+\Rightarrow \times \iff +$$
  
 $-\Rightarrow + \times \Rightarrow \Rightarrow \Rightarrow +$ 

Option (a)

64.

$$20-4 \div 4 + 8 < 2 \times 26$$

$$\Rightarrow 20+4-4\times8 \div 2 > 26$$

$$\Rightarrow$$
 20 + 4 - 4 × 4 > 26

$$\Rightarrow$$
 24 – 16 > 26  $\Rightarrow$  8 > 26 (not possible)

Option (b)

$$20 \times 8 + 15 < 5 \div 9 - 8$$

$$\Rightarrow$$
 20 > 8 × 15 ÷ 5 – 9 + 8

$$\Rightarrow$$
 20 > 8 × 3 - 9 + 8

$$\Rightarrow$$
 20 > 24 - 9 + 8  $\Rightarrow$  20 > 23 (not possible)

Option (c)

$$20 < 2 + 10 \div 4 - 6 \times 100$$

$$\Rightarrow 20 \div 2 \times 10 - 4 + 6 > 100$$

$$\Rightarrow 10 \times 10 - 4 + 6 > 100$$

$$\Rightarrow 100-4+6>100$$

$$\Rightarrow 106-4 > 100 \Rightarrow 102 > 100$$

Option (d)

$$20 < 5 + 25 \div 10 - 2 \times 96$$

$$\Rightarrow$$
 20 ÷ 5 × 25 – 10 + 2 > 96

$$\Rightarrow$$
 4 × 25 – 10 + 2 > 96

$$\Rightarrow 100 - 10 + 2 > 96$$

$$\Rightarrow$$
 102 – 10 > 96  $\Rightarrow$  92 > 96 (not possible)

65. (b)  $8 \times 20 \div 3 + 9 - 5 = 38$ 

$$\Rightarrow$$
 8 × 20 ÷ 5 + 9 - 3 = 38

$$\Rightarrow 8 \times 4 + 9 - 3 = 38$$

$$\Rightarrow$$
 32 + 9 - 3 = 38

66. (a)  $33 \times 11 \div 3 - 6 = 115$ 

$$\Rightarrow \left(\frac{363}{3}\right) - 6 = 115$$

$$\Rightarrow 121 - 6 = 115$$

67. (d) 15 \* 24 \* 3 \* 6 \* 17

$$\Rightarrow$$
 15 + 24  $\div$  3 - 6 = 17

$$\Rightarrow$$
 15 + 8 - 6 = 17

68. (a) Solve by options, we can check all the options one by

$$25 \div 5 \times 20 + 27 - 7 \Rightarrow 5 \times 20 + 27 - 7 \Rightarrow 100 + 27 - 7$$
  
 $120 = 120$ 

69. (a)  $A \theta B \times C$ 

$$A\theta B; B \times C$$

Hence, option (a) implies the given equation.

70. (c)  $(6+3)-(3+0)=6\times 5=30$ 

$$(7+2)-(1+0)=8\times 5=40$$

$$(8+1)-(6+0)=3\times 5=15$$

71. (b) Suppose the age of son is x years

Therefore, age of father = 10x years

According to question

$$\frac{10x + x}{2} = 22 \Rightarrow 11x = 44$$
 :  $x = \frac{44}{11} = 4$  years

Age of son = 4 years.

Age of father =  $10 \times 4 = 40$  years

72. (c) 
$$L \Rightarrow 12; 12 \times 2 = 24$$
  
 $O \Rightarrow 15; 15 \times 2 = 30$   
 $N \Rightarrow 14; 14 \times 2 = 28$   
 $D \Rightarrow 04; 04 \times 2 = 08$   
 $O \Rightarrow 15; 15 \times 2 = 30$   
 $N \Rightarrow 14; 14 \times 2 = 28$   
Therefore,  
 $F \Rightarrow 06; 06 \times 2 = 12$   
 $R \Rightarrow 18; 18 \times 2 = 36$   
 $A \Rightarrow 01; 01 \times 2 = 02$   
 $N \Rightarrow 14; 14 \times 2 = 28$   
 $C \Rightarrow 03; 03 \times 2 = 06$   
 $E \Rightarrow 05; 05 \times 2 = 10$ 

73. (a)  $29 \times 48$   $\Rightarrow 2 \times 9 \times 4 \times 8 = 576$   $35 \times 16$   $\Rightarrow 3 \times 5 \times 1 \times 6 = 90$   $22 \times 46$   $\Rightarrow 2 \times 2 \times 4 \times 6 = 96$ Therefore,  $42 \times 17$  $\Rightarrow 4 \times 2 \times 1 \times 7 = \boxed{56}$ 

74. (c)

75. (b)  $[+ \Rightarrow >$ 

 $\begin{array}{c|c}
M \Rightarrow + & B \Rightarrow \div \\
12 P 6 M 15 T 16 B 4 = ? \\
\Rightarrow ? = 12 \times 6 + 15 - 16 \div 4 \\
\Rightarrow ? = 72 + 15 - 4 = \boxed{83}
\end{array}$ 

 $P \Longrightarrow \times$ 

 $\begin{vmatrix} \times \Rightarrow = & | \Rightarrow < | L \Rightarrow \neq | \\ A|B \times C \Rightarrow A < B = C \\ B + C|A \Rightarrow B > C < A & Option (a) \\ C - B + A \Rightarrow C \ge B > A & Option (b) \\ B|A|C \Rightarrow B < A < C & Option (c) \\ A \phi B|C \Rightarrow A \le B < C & Option (d) \end{vmatrix}$ 

φ ⇒≤ |

-⇒≥

 $T \Rightarrow -$ 

76. (c)  $A \Rightarrow \leq B \Rightarrow = C \Rightarrow < D \Rightarrow \geq E \Rightarrow \neq F \Rightarrow >$ 

2 M B N

$$\Rightarrow 2 M = N \Rightarrow M = \frac{N}{2}$$

$$2 NA 3 K$$

2 NA 3 K  $\Rightarrow 2 \text{ N} \leq 3 \text{K} \Rightarrow 4 \text{M} \leq 3 \text{K}$ Option (a) 2 M D 3 K  $\Rightarrow 2 \text{ M} \geq 3 \text{K}$ : Not True Option (b) 2 M B 3 K  $\Rightarrow 2 \text{ M} = 3 \text{ K}$ : Not True Option (c) 2 M C 3 K

 $\Rightarrow$  2 M < 3 K : True

Option (d) 2 K B 3 N $\Rightarrow 2 K = 3 N : Not True$ 

77. (b) Let uncle's present age = xRahim's present age = y x-y=30 ...(i) After 7 year (x+7)+(y+7)=66

(x+7)+(y+7)=66 x+y+14=66x+y=52 ...(ii) we get

combining (i) & (ii) we get (x+y=52)+(x-y=30)2x=82

x = 41 so, uncle's age is 41.

78. (b) 
$$7 + 8 + 2$$
 $17+3=20$ 
 $6 + 7 + 1$ 
 $14+3=17$ 
 $8 + 8 + 4$ 
 $20+3=23$ 

Similarly, 
$$4 \times 8 \times 7 = 748$$

- 80. (a)  $9+7-2\times 3=10$  9+7-6=1016-6=10
- 81. (d)  $35 \div 7 \times 5 + 5 6$ =  $5 \times 5 + 5 - 6$ 25 + 5 - 630 - 6 = 24

82. (a) 
$$A = C - 4$$
 ......(1)  
 $B = A + 15$  ......(2)  
 $C = B - 15$  ......(3)  
From (1) and (3)  
 $A = B - 11 - 4$   
 $A = B - 15$   
 $A:B:C$   
 $B - 15: B: B - 11$   
 $B - 15 + B + B - 11 = 178$   
 $3B = 178 + 26 = 204 \implies B = 68$   
 $A = 53, C = 57$ 

83. (c) Let woman has number of 25 p coins = x Number of 50 p coins = y

Then, value of 25 p coins =  $\frac{x}{4}$ 

value of 50 p coins = 
$$\frac{y}{2}$$

Now, 
$$\frac{x}{4} + \frac{y}{2} = 12.75$$
 ...(1)

and 
$$x + y = 40$$
 ... (2)

On solving question. (1) and (2) y = 11Hence, the number of 50 p coins is 11.

84. (d) Let the present age of sunita = x year

$$4x + 8 = 3x + 24$$
$$4x - 3x = 24 - 8$$

$$x = 16$$
 years

85. (c) If, 
$$5 + 7 = 12 \Rightarrow 21$$
  
 $9 + 4 = 13 \Rightarrow 31$   
Then,  
 $7 + 9 = 16 \Rightarrow 61$ 

86. (b) If, 
$$532 + 781 = (5 + 3 + 2) + (7 + 8 + 1) - 5$$
  
 $= 10 + 16 - 5$   
 $= 21$   
 $862 + 910 = (8 + 6 + 2) + (9 + 1 + 0) - 5$   
 $= 16 + 10 - 5$   
 $= 21$   
Then

$$796+355=(7+9+6)+(3+5+5)-5$$
  
= 22+13-5

$$=30$$

87. (a) After interchanging sign-

$$10 \times 5 \div 5 - 5 + 5 = 10 \times 1 - 5 + 5$$

$$= 10 - 5 + 5$$

$$= 15 - 5$$

$$= 10$$

88. (a) Rupa = 
$$\frac{\text{Praveen}}{2}$$

Praveen = Deepak + 6 as Deepak = 12So, Praveen = 12 + 6 = 18

Rupa's is age = 
$$\frac{18}{2}$$
 = 9 years

89. (a) 
$$18-6+4\times6\div2$$
  
 $\Rightarrow 18-6+4\times3$   
 $\Rightarrow 24$ 

91. (a) 
$$=27 \div 3 \times 6 - 9 + 8$$
  
 $=9 \times 6 - 9 + 8$   
 $=54 - 9 + 8$   
 $=53$ 

92. (b) From the option (b) on putting the signs  $4 \times 6 + 2 - 4 + 8 = 30$  24 + 2 - 4 + 8 = 30 22 + 8 = 30 30 = 30

93. (b) 
$$35 \div 7 + 25 = 15 \times 2$$
  
 $5 + 25 = 30$   
 $30 = 30$ 

94. (c) 
$$7 \times 9 \times 6 \times 5$$
  
 $-2 \begin{vmatrix} -2 & -2 & -2 \\ 5 \times 7 \times 4 \times 3 \end{vmatrix}$   
Similarly  $8 \times 4 \times 14 \times 12$   
 $-2 \begin{vmatrix} -2 & -2 \\ 6 \times 2 \times 12 \times 10 \end{vmatrix}$ 

95. (b) It takes 15 cm per minute but it comes back 2.5 cm in every 15 cm.
 So, 15 - 2.5 = 12.5 cm
 as 1m = 100 cm

then, it will take to cover a distance of 1 m =  $\frac{100}{12.5}$  = 8 min.

96. (d) Going by options; Box 1 Box 2

[5] : [7]

If 1 cande in box number is placed in box number 2 then

Therefore, Box 2 has twice the number of candles than box 1. If 1 candle from box 2 is placed in box-1

Then- Box 1 Box 2 Hence, Both boxes have the same

[6]: [6]:

numbers of candles.

97. (b) 
$$4+6\times 2=16$$

98. (\*) Going by options:-

(a) 
$$45 + 3 \times 6 \div 2 = 16$$

(b) 
$$45 + 3 \div 6 \times 2 = 16$$

(c) 
$$45 + 3 \times 6 - 2 = 16$$

$$61 \pm 16$$

(d) 
$$45+3+6-2=16$$

$$52 \neq 16$$

None of option matching, Hence question is wrong.

99. (c) 
$$8 \times 5 + 10 = 2 \times 25$$
  
 $50 = 50$ 

Hence, 20 is the number of that house.

Prem's age seven years before = 24 - 7 = 17 years.

(a) 
$$22 \times 7 + 3 - 9 = 148$$
  
 $154 + 3 - 9$ 

$$157 - 9 = 148$$
 (Correct)

(b) 
$$33-5+10\times20=228$$
  
 $33-5+200$   
 $200+33-5$   
 $233-5=228$  (Correct)

$$233-5=228$$
 (Correct)  
(c)  $7 \times 28 + 3 - 52 = 127$ 

$$196+3-52$$
  
 $199-52=147$  (Incorrect)

$$199 - 52 = 14 / (Incorrect)$$

(d) 
$$44+9\times6-11=87$$
  
 $44+54-11$ 

$$98 - 11 = 87$$
 (Correct)

104. (c) (a) 
$$12+3\times4.=6-8\times8$$
  
 $12+12=6-64$ 

By options, 24 = 58 (Incorrect) ·· 58 > 24

(b) 
$$12 \times 3 + 4 = 6 - 8 \times 8$$
  
 $36 + 4 = 6 - 64$   
 $40 = 58$  (Incorrect)  
 $58 > 40$ 

(c) 
$$12 \times 3 + 4 = 6 \times 8 - 8$$
  
  $36 + 4 = 48 - 8$ 

40 = 40 (Correct)  
(d) 
$$12 \times 3 - 4 = 6 \times 8 + 8$$
  
 $36 - 4 = 48 + 8$   
 $32 = 56$  (Incorrect)

106. (a) 
$$(N \times \boxed{L} + M) \div K = 31$$
  
 $(11 \times 5 + 7) \div 2 = 31$ 

$$62 \div 2 = 31$$

$$2 \times 3 \times 4 = 432$$

$$5 \times 6 \times 7 = 765$$

$$7 \times 8 \times 9 = 987$$

$$2 \times 5 \times 7 = 752$$

108. (c) Trend in decrease:

$$26 \xrightarrow{-1} 25 \xrightarrow{-2} 23 \xrightarrow{-3} 20 \xrightarrow{-4} 16 \xrightarrow{-5} 11 \xrightarrow{-6}$$

109. (b) Let 'D' be the distance between A and B and T be the time taken by them

Then.

Distance = Speed  $\times$  Time

$$D = 40 \times \left(T + \frac{15}{60}\right) \qquad \dots (1)$$

$$D = 30 \times \left(T + \frac{24}{60}\right)$$
 ...(2)

Equating (1) and (2)

$$40\left(T + \frac{1}{4}\right) = 30\left(T + \frac{2}{5}\right) \Rightarrow 40\frac{(4T+1)}{4} = 30\left(\frac{5T+2}{5}\right)$$

$$40T + 10 = 30T + 12$$

$$T = \frac{2}{10} hour$$

$$T = \frac{1}{5}$$
 hour

Putting 'T' value in equation (1), we get

$$D = 40 \times \left(\frac{1}{5} + \frac{1}{4}\right) = \frac{40 \times 9}{20} = 18 \text{ km}.$$

Hence, the distance between the two stations is 18 km.

110. (b) 
$$46 \times 6 \div 4 + 5 - 3 = 46 \times 1.5 + 5 - 3 = 69 + 5 - 3 = 71$$

111. (b) 
$$18 \times 6 \div 4 + 2 - 3 = 18 \times 1.5 + 2 - 3 = 27 + 2 - 3 = 26$$

- 112. (d) (A) Virgo is the sixth sign of zodiac.
  - (B) Volleyball is a team sport in which each team has six
  - (C) A highest scoring short of a particular sport is six.

113. (a) 
$$A \Rightarrow \not \downarrow B \Rightarrow \not \downarrow C \Rightarrow \not \downarrow$$
  $D \Rightarrow \searrow E \Rightarrow \swarrow F \Rightarrow =$ 

Premises:

$$4Y = 3x$$
 and  $3x = 6Z$ 

(a) 
$$2Y = 3Z(\checkmark)$$

(b) 
$$4Y \neq 5Z(x)$$

(c) 
$$2Y > 3Z(x)$$

(d) 
$$2Y < 3Z(x)$$

114. (c) 
$$16 \div 64 - 8 \times 4 + 2$$
  
 $\Rightarrow 16 + 64 \div 8 - 4 \times 2$   
 $\Rightarrow 16 + 8 - 4 \times 2$   
 $\Rightarrow 16 + 8 - 8 \Rightarrow 16$ 

115. (c) Let basic pay of A = x

Let basic pay of B = y

As per given condition

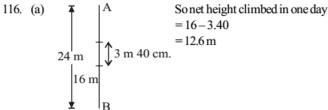
Total salary = x + 0.65 x = 1.65 x

Total salary of B = y + 0.80y = 1.8y

1.65x = 1.8y

$$\frac{x}{y} = \frac{1.8}{1.65} = \frac{180}{165} = \frac{12}{11}$$

So ratio of basic pay = 12:11



- 117. (a) Let the speed of A and B in first lap = 3x and 2x.

  Speed of A and B in second lap = 4x and 7x

  Speed of A and B in third lap = 8x and 9x

  Total speed of horse A = 8x + 4x + 3x = 15x

  Total speed of horse B = 9x + 7x + 2x = 18x

  Difference between A and B = 18x 15x = 3x

  So correct answer is (a).
- 118. (b)  $24 \div 6 \times 4 + 9 8$   $4 \times 4 + 9 - 8$  16 + 9 - 825 - 8 = 17
- 119. (c) As,  $7 \times 6 \times 4 = 674$ ,  $8 \times 5 \times 3 = 583$ Similarly,  $9 \times 1 \times 2 = 192$
- 120. (a) (x) sign has been changed by (+) sign. Therefore, 9+8+7=24 4+7+3=142+1+9=12
- 121. (a)  $5+2-12\times 6 \div 2=10$ Can be written in original signs as  $5\times 2+12\div 6-2=10+2-2=10$
- 122. (b) Rewriting the expression 16 Q 12 P6R5S4 with original signs  $16 \times 12 \div 6 + 5 4$  $= 16 \times 2 + 5 4$ = 32 + 1 = 33
- 123. (c)  $72 \times 19 = 23 \Rightarrow (7 \times 2 + 1 \times 9 = 23)$   $13 \times 48 = 35 \Rightarrow (1 \times 3 + 4 \times 8 = 35)$   $16 \times 43 = 18 \Rightarrow (1 \times 6 + 4 \times 3 = 18)$ So,  $39 \times 22 = ? \Rightarrow (3 \times 9 + 2 \times 2 = 31)$
- 124. (c) Writing the expression with actual sign  $64 \div 8 + 32 \times 4 = 8 + 128 = 136$
- 125. (a) If all the signs are changed as per given in the question only  $25 + 10 \frac{5}{10} \times 3 = 43$  will be satisfied  $25 \times 10 \div 5 10 + 3 = 43$
- 127. (b)  $24 + 8/2 6 \times 6$ will be written as  $\frac{24}{8} - 2 \times 6 + 6 = 3 - 12 + 6 = -3$

128. (a) 
$$7 \times 6 \times 8 = 678$$
  
Similarly  $5 \times 4 \times 6 = 456$ 

- 129. (c) Putting  $\times = +, -= \div, \div = -$  and  $+ = \times$ Only  $16 + 5 - 10 \times 4 \div 3 = 9$ Satisfy the equation  $16 \times 5 \div 10 + 4 - 3 = 9$ 9 = 9
- 130. (b)  $4 \times 5 \times 2 = 524$ ,  $3 \times 7 \times 2 = 723$ ,  $6 \times 8 \times 7 = 876$ 
  - $\therefore \quad 9 \times 4 \times 5 = 459$
- 131. (b) Putting  $+=-, -=\times; \div=+ \text{ and } \times = \div$ in  $15-3+10\times 5\div 5$   $\Rightarrow 15\times 3-10\div 5+5$ 45-2+5=48
- 132. (b)  $7 \times 4 \times 9 = 479, 9 \times 5 \times 2 = 592, 6 \times 9 \times 5$ = 965,  $8 \times 6 \times 2 = 682$
- 133. (b) Age of Son = x, Age of doctor = 4x 4x + 10 = 2(x + 10) 4x - 2x = 20 - 10 2x = 10 x = 5Age of Son = 5 year
- Age of Son = 5 year

  134. (a) Let the age of Mona = xHer husband age = yDaughter's age = zA/c to the question y = x 6 (1) 5z = x (2) z 3 = 5 (3)

$$z = 8$$
  
So,  $x = 5 \times 8 = 40$   
Age of Mona =  $40 - 6 = 34$ 

- 135. (b)  $678 : \frac{67}{8} \Rightarrow \text{Quotient (Q)} = 8, \text{ Remainder (R)} = 3 \text{ i.e} = 83$ 
  - 476:  $\frac{47}{6} \Rightarrow Q = 7, R = 5 \text{ i.e. } 75$
  - $567: \frac{56}{7} = Q = 8, R = 0 \text{ i.e. } 80$
  - 369:  $\frac{36}{9} = Q = 4$ , R = 0 i.e. 40

136. (b)

137. (b) Let present age of Rakhi = x years Age of Rakhi at the time of engagement = (x-10) years According to question,

$$x = \frac{5}{3} \times (x - 10)$$
$$3x = 5x - 50$$

$$2x = 50$$

$$2x = 50$$

$$\therefore x = \frac{50}{2} = 25 \text{ years}$$

 $\therefore$  Mother's age of Rakhi =  $2 \times 25 = 50$  years.

:. Mother's age of Rakhi at the time of her engagement = 50 - 10 = 40 years.

138. (c) Option (a),  $9-3+8 \div 4 \times 7 = 28$  $20 \neq 28$ option (b),  $9 \times 3 - 8 \div 4 + 7 = 28$  $32 \neq 28$ option (c),  $9 \div 3 + 8 \times 4 - 7 = 28$ 28 = 28

.. option (c) is correct.

139. (b) As, 4\*5%3 = 8000 $\Rightarrow (4 \times 5)^3 = 8000$ and 2\*5%2=36 $\Rightarrow (2 \times 3)^2 = 36$ Similarly, 4 \* 3 % 3 = ? $(4 \times 3)^3 = 1728$ 

140. (c) Let A's present age be xB's age = x - 9A's age 3 year later = x + 3B's age 4 year ago =x-9-4A/c to the question x+3+x-9-4=762x = 86x = 43B's present age = 43 - 9=34

C's present age = 
$$\frac{B's}{2}$$

Hence age of C after 10 year =  $\frac{34}{2}$  = 17 + 10 = 27

141. (a) option (a),  $4 \times 3 + 6 \div 2 - 7 = 8$ 15 - 7 = 8So, option (a) is correct. 142. (b) As, 3 # 4 % 8 = 6 $3 \div 4 \times 8 = 6$  $\frac{3}{4} \times 8 = 6$ 

and 
$$9 \% 4 \# 3 = 12$$
  
 $9 \times 4 \div 3 = 12$   
 $9 \times \frac{4}{3} = 12$ 

Similarly, 12 % 6 # 24 = ? $12 \times 6 \div 24 = 3$  $12 \times \frac{6}{24} = 3$ 

So, answer is 3.

143. (b) From option (b).  $18 \div 6 \times 9 = 27$ 

$$\frac{18}{6} \times 9 = 27$$

So, option (b) is correct.

144. (b) As,  $\frac{18\times3}{6} = 9$ ,  $\frac{36\times5}{6} = 30$ Similarly,

$$\frac{19 \times 18}{6} = 57$$

So, value of A is 57.

145. (d) Let present age of P = 5x and present age of Q = 8xAccording to question, After 3 years,

$$\frac{5x+3}{8x+3} = \frac{8}{11}$$

$$64x+24=55x+33$$

$$64x-55x=33-24$$

$$9x=9$$

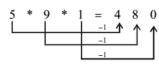
$$\therefore x = \frac{9}{9} = 1$$

 $\therefore$  Present age of Q = 8x = 8 × 1 = 8 years.

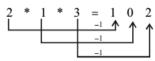
146. (b) The expression is: 15 S 16 Q 2 P 4 = 47 $15+16, 2\times 4=47$ 47 = 47

So, option (2) is true.

147. (d) As,



Similarly,



148. (a) If,

then,

$$126 \div 14 - 7 \times 3 + 2 = -10$$

149. (b) According to question;

As, 
$$12 \times 9 = 108 \Rightarrow 810$$
  
 $15 \times 9 = 135 \Rightarrow 513$   
Similarly,  
 $13 \times 8 = 104 \Rightarrow 410$ .

150. (c) Let total age of a mother = x total age of her daughter = y

According to question, 
$$x+y=60$$

$$x - y = 30$$

x - y = 30 ....(

from Eq. (i) and (ii) x=45

y = 15

:. Age of mother = 45 years.

151. (c) If

 $P = \div$ 

 $Q = \times$ 

R = +

S = -

Then, 18 O 12 P 4 R 5 S 6 = ?

 $\Rightarrow$   $18 \times 12 \div 4 + 5 - 6$ 

 $\Rightarrow 18 \times 3 + 5 - 6$ 

 $\Rightarrow$  59-6=53.

152. (b) From option, (b)  $14 \div 2 \times 4 > 6 \times 4$  28 > 24

:. Option (b) is correct.

153. (c) From option (c)  $43-9+6 \div 3 \times 8 = 50$ 

 $\Rightarrow$  43-9+2×8

 $\Rightarrow$  43-9+16

 $\Rightarrow$  50 = 50

So, option (c) is correct.

154. (d) As,

49 - 2 = 47

90 - 6 = 84

Similarly,

53 - 7 = 46

155. (d) As  

$$1/4/3 \Rightarrow (1+1)/(4+1)/(3+1) = 2/5/4 = 254$$
  
 $3/6/8 \Rightarrow (3+1)/(6+1)/(8+1) = 4/7/9 = 479$   
Similarly  
 $5/2/7 \Rightarrow (5+1)/(2+1)/(7+1) = 6/3/8 = 638$ 

156. (c) As,  $85 \times 5 - 3 = 20 \Rightarrow 85 \div 5 + 3 = 20$   $18 \times 2 - 1 = 10 \Rightarrow 18 \div 2 + 1 = 10$ Similarly,  $100 \times 20 - 5 = 10 \Rightarrow 100 \div 20 + 5 = 10$ 

157. (c) Option (c)  $25 + 18 \div 2 - 4 = 20$  (By interchanging + and -)  $25 - 18 \div 2 + 4 = 20$  25 - 9 + 4 = 20So, option (c) is correct.

158. (b) Let present age of A and B be 3x and 5x.

According to question,

C celebrated his 10<sup>th</sup> birthday 4 years ago.

 $\therefore \text{ Present age of C} = 10 + 4 = 14$ 

Now,

After 7 years,

 $(5x + 7) = 2 \times (present age of C + 7)$ 

5x+7=2(14+7)

 $5x + 7 = 2 \times 21$ 

$$5x = 42 - 7 = 35$$

$$\therefore x = \frac{35}{5} = 7$$

 $\therefore$  Present age of A = 3x = 3 × 7 = 21 years.

159. (b) Tanya's mother is thrice the age of her daughter So, Tanya's mother Nisha's current age = 3 × 10 = 30 years.
Tanya's father Deepak's current age = 30 + 5 = 35 years.
So, Deepak's age at the time of Tanya's birth

=35-10=25 years. 160. (b)  $8\times2+5-16\div4=14$ 

After changing 'x' and '+', we get  $8+2\times5-16+4=8+10-4=14$ 161. (a) Let Malini's current age is x years, then Shipra's current

ATQ, (65-x)+5-(x+5)=15  $65-2x=15 \Rightarrow 2x=50, x=25 \text{ years}$ Hence, Malini's current age = 25 years.

162. (d)  $5+16-4\times14+2=59$ changing  $\div$  and -, we get  $5+16+4\times14-2=59$  $5+4\times14-2=5+56-2=59$ 

age is (65 - x) years.

163. (d) The given expression:  $15+15-2\times10\div35=16$ After exchanging '+' and '÷', we get  $15\div15-2\times10+35=16$  1-20+35=16 36-20=16 16=16.

164. (b) From option (b)  

$$18 + 12 \times 8 - 6 \div 3 = 9$$
  
 $\Rightarrow 18 \div 12 \times 8 - 6 + 3 = 9$   
 $\Rightarrow \frac{18}{12} \times 8 - 6 + 3 = 9 \Rightarrow 12 - 6 + 3 = 9$ 

$$\Rightarrow \frac{1}{12} \times 8 - 6 + 3 = 9 \Rightarrow 12 - 6 + 3 = 9$$

$$\Rightarrow 9 = 9 \text{ (L.H.S = R.H.S)}$$

So, option (b) is correct.

165. (a) From option (a)  

$$9+4 \div 2-6 \times 3 = 4 \div 3 \times 6-9+1$$
  
 $\Rightarrow 9+6 \div 2-4 \times 3 = 6 \div 3 \times 4-9+1$ 

$$\Rightarrow 9 + \frac{6}{2} - 4 \times 3 = \frac{6}{3} \times 4 - 9 + 1$$

$$\Rightarrow$$
 9+3-4×3=2×4-9+1

$$\Rightarrow 12-12=8-9+1$$

$$\Rightarrow$$
 0=0 (L. H. S. = R.H.S)

So, option (a) is correct answer.

$$12 \div 4 + 2 - 6 \times 3 = 3 \div 12 + 6 \times 2 - 4$$

$$\Rightarrow 12 + 6 \div 2 - 4 \times 3 = 3 + 12 \div 4 \times 2 - 6$$

$$\Rightarrow$$
 12+3-12=3+3×2-6

$$\Rightarrow 15-12=3+6-6$$

$$\Rightarrow$$
 3 = 3 (L. H. S. = R. H. S.)

$$\Rightarrow$$
 20+15÷3×8-9  $\Rightarrow$  20+5×8-9

$$\Rightarrow$$
 20+40-9  $\Rightarrow$  60-9=51

168. (c) 
$$25+5\times7-12\div3=26$$
  
  $25\div5\times7-12+3=26$ 

$$\Rightarrow 5 \times 7 - 12 + 3 = 26 \Rightarrow 35 - 12 + 3 = 26$$

$$\Rightarrow$$
 23+3=26  $\Rightarrow$  26=26

169. (a) 
$$5+3\times4-12\div2=-1$$

$$\Rightarrow$$
 5-3×4+12÷2=-1

$$\Rightarrow$$
 5-12+6=-1  $\Rightarrow$  11-12=-1

$$\Rightarrow$$
 -1 = -1 (L.H.S. = R.H.S.)

$$\Rightarrow$$
 51 ÷ 17 × 15 + 22 – 34

$$\Rightarrow$$
 3 × 15 + 22 - 34  $\Rightarrow$  45 + 22 - 34 = 67 - 34 = 33

171. (a) From option (a)

$$9 + 7 \times 5 - 18 \div 2 = 3 \times 4 - 10 + 45 \div 5$$

$$\Rightarrow$$
 9+4×5-18÷2=3×7-10+45÷5

$$\Rightarrow$$
 9+4×5-9=3×7-10+9

$$\Rightarrow$$
 20=20 (L.H.S.=R.H.S.)

So, option (a) is correct.

172. (c) Let present ages of Asha and Lata = 5x and 6x According to question,

$$6x-5x=6$$
 :  $x=6$ 

$$\therefore$$
 Lata's present age =  $6x = 6 \times 6 = 36$ 

 $\therefore$  Lata's age after 5 years = 36 + 5 = 41 years

173. (c) From option (c)

$$67 - 76 + 43 = 100$$

After interchange (+ and -) sign

$$67 + 76 - 43 = 100$$

$$\Rightarrow$$
 143 - 43 = 100  $\Rightarrow$  100 = 100

So, option (c) is correct.

174. (c) From option (c),

$$73 - 13 \times 42 \div 14 + 56 = 56$$

After interchanging the signs – and +  $73 + 13 \times 42 \div 14 - 56 = 56$ .  $73 + 13 \times 3 - 56 = 56$ . 73 + 39 - 56 = 56. 112 - 56 = 56. 56 = 56

So, option (c) is correct. 175. (a) From option (a),

$$16 \div 9 + 4 \times 8 = 34$$

After interchanging the signs + and  $\div$  16 + 9  $\div$  4 × 8 = 34

$$16 + \frac{9}{4} \times 8 = 34$$

$$16+18=34;34=34$$

So, option (a) is correct.

176. (d) We have,

$$[{(32 \times 24) - (4 \div 3)} + (3 - 2)] \div 3$$

On interchanging the signs

$$[\{(32-24)+(4\times3)\}\div(3+2)]\times3$$

$$= [\{(8) + (12)\} \div (5)] \times 3 = [20 \div 5] \times 3 = 4 \times 3 = 12.$$

177. (a) Given, total Students = 11

Total Boys = 6

i.e. Total Girls = 11-6=5

Probability that the class monitor is a Girl =  $\frac{5}{11}$ .

178. (c) Let there are total 100 students in training camp.

Cricket training received =  $100 \times \frac{14}{100} = 14$  students

Hockey training received

$$= (100-14) \times \frac{22}{100} = 86 \times \frac{22}{100} = 18.92$$

Badminton training received

$$=(86-18.92)\times\frac{1}{2}=67.08\times\frac{1}{2}=33.54\%$$

The students did not receive training in any of the three games = Remaining half students = 33.54%

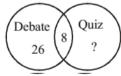
179. (a) 
$$68 + 138 \div 23 - 54 = 20$$

$$68+6-54=20$$
;  $74-54=20$   
 $20=20$ 

40 . 15

180. (d) 
$$40+15\times3-72\div9=40+45-8$$
  
=  $85-8=77$ 

181. (b)



Hence, number of students participated only in Quiz = 68 - (26 + 8) = 34

182. (c)  $18 \div 9 + 12 \times 4 - 8 = 15$ 

By interchanging (–) and  $(\div)$ ,

$$\Rightarrow 18 - 9 + 12 \times 4 \div 8 = 9 + 12 \times \frac{4}{8}$$
$$= 9 + 6 = 15$$

183. (d) 
$$6 \div 3 + 12 - 6 = 5$$
  
By interchanging sign – and  $\div$ ,  
 $6 - 3 + 12 \div 6 = 3 + \frac{12}{6} = 3 + 2 = 5$ 

Hence, option (d) is correct.

184. (c) Interchange 35 and 45, × and –  

$$\Rightarrow 45 + 15 \times 4 - 35 \div 5 = 98$$
  
 $\Rightarrow 45 + 60 - 7 = 98$   
 $\Rightarrow 98 = 98$ 

- 185. (c) A denotes addition
  B denotes Multiplication
  C denotes Subtraction
  D denotes division  $\Rightarrow 43 + 22 15 \times 4 + 72 \div (10 2)$   $\Rightarrow 65 60 + 9 = 14$
- 186. (d)  $44+32 \div 8-16 \times 3=0$ 44+4-48=0
- 187. (c) Z=Y>R=M and G>H=Z=QR>Z is not correct.
- 188. (b) Sum of incomes of A, B, C, D, E, F is = 39000 Total income of B, D, E, F = 25000

189. (a) 
$$A + A^2 + A^3 = 399$$
 ...(1)  
Putting the value '7' in equation (1), we get  $7 + (7)^2 + (7)^3$   
 $\Rightarrow 7 + 49 + 343 = 399$   
 $B + B^2 + B^3 = 819$  ...(2)  
Putting the value '9' in equation (2), we get;  $9 + (9)^2 + (9)^3$   
 $\Rightarrow 9 + 81 + 729$   
 $\Rightarrow 819$   
Hence, according to question;  $(A + B)^2 = (7 + 9)^2 = (16)^2 = 256$ 

$$\begin{array}{c|cccc}
C \longrightarrow - & D \longrightarrow \div \\
35 B 2 A 5 B (40 C 37) A (8 B 4) D 16 C 14 \\
35 \times 2 + 5 \times (40 - 37) + (8 \times 4) \div 16 - 14 \\
70 + 5 \times 3 + 32 \div 16 - 14 \\
70 + 15 + 2 - 14 = 73
\end{array}$$

190. (c)

191. (c) Interchange × and 
$$-25 \times 5 - \frac{50}{10} + 35$$
  

$$\Rightarrow 125 - 5 + 35 = 155$$

192. (d) 
$$31 \times 2 + 60 \div 30 - 15 = 49$$
  
 $62 + \frac{60}{30} - 15 = 49$   
 $64 - 15 = 49$   
 $49 = 49$ 



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