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# CHAPTER

# 9

# Number Puzzle

1. Find the missing number from the given responses.  
(SSC CGL 1<sup>st</sup> Sit. 2010)

173	(24)	526
431	(18)	325
253	(?)	471

- (a) 22 (b) 42 (c) 30 (d) 06

2. What is the number missing from the third target?

5	9	15
16	29	?
49	89	147

(SSC CGL 1<sup>st</sup> Sit. 2010)

- (a) 45 (b) 48 (c) 51 (d) 54

3. The following equations follow a common property. Find out the correct value to complete D : (SSC CGL 2<sup>nd</sup> Sit. 2010)

A = 51 (714) 14 :

B = 61 (915) 15 :

C = 71 (1136) 16 :

D = 81 (?) 17 :

- (a) (1377) (b) (1378) (c) (1356) (d) (1346)

4. Find the missing number from the given responses:

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

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

- (a) 4 (b) 5 (c) 3 (d) 6

**DIRECTIONS (Qs. 5 – 6) :** In each of the following questions. Select the missing number from the given responses.

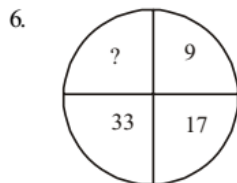
5. 

2	7	9
7	3	4
9	8	?

 126 168 216  
(SSC CGL 1<sup>st</sup> Sit. 2011)

2	7	9
7	3	4
9	8	?
126	168	216

- (a) 8 (b) 3 (c) 6 (d) 36



- (a) 60 (b) 68 (c) 55 (d) 65

**DIRECTIONS (Qs. 7 - 8) :** Select the missing number from the given responses :

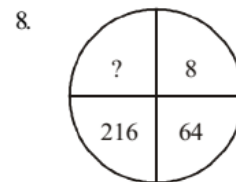
7. 

7	3	2
4	9	6
2	1	5
69	91	?

 (SSC CGL 2<sup>nd</sup> Sit. 2011)

7	3	2
4	9	6
2	1	5
69	91	?

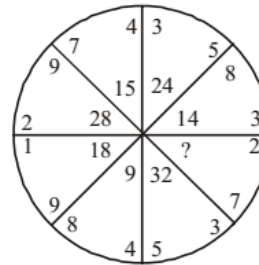
- (a) 58 (b) 51  
(c) 65 (d) 64



- (a) 343 (b) 512 (c) 729 (d) 1000

**DIRECTIONS (Qs. 9- 11) :** Select the missing number from the given responses.

9. (SSC CGL 1<sup>st</sup> Sit. 2012)



- (a) 20 (b) 25 (c) 10 (d) 15

10. 

10	11	15
12	12	8
4	12	10
10	5	13
18	20	?

- (a) 21 (b) 20  
(c) 23 (d) 22

11. 

2	3
4	5

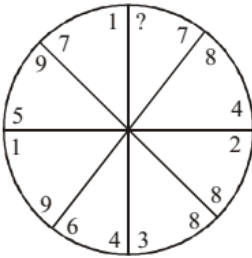
 = ?

- (a) 14400 (b) 15600  
(c) 23040 (d) 17400

**DIRECTIONS (Qs. 12 - 13):** Select the missing number from the given responses.

(SSC CGL 2<sup>nd</sup> Sit. 2012)

12.



- (a) 6 (b) 2 (c) 3 (d) 4

13.

7	6	9
2	8	4
4	3	?
36	42	26

- (a) 5 (b) 2 (c) 3 (d) 4

**DIRECTIONS (Qs. 14 - 15):** In the following questions, select the missing number from the given responses.

(SSC CGL 1<sup>st</sup> Sit. 2012)

14.  $\begin{matrix} 7 & 8 & 6 \\ 4 & 9 & 5 \\ 3 & 2 & ? \\ 25 & 70 & 29 \end{matrix}$
- (a) 9 (b) 8 (c) 1 (d) 5

15.

3	4	5
6	7	8
9	1	2
57	11	?

- (a) 42 (b) 21 (c) 11 (d) 18

**DIRECTIONS (Qs. 16 - 17):** Find the missing number.

16. 

21	24	36
11	14	12
3	?	4
77	112	108

(SSC CGL 2<sup>nd</sup> Sit. 2012)

- (a) 2 (b) 4 (c) 3 (d) 5

17.  $\begin{matrix} 12 & 16 & 18 \\ 16 & 16 & 20 \\ 5 & 7 & ? \\ 197 & 263 & 356 \end{matrix}$

- (a) 9 (b) -4 (c) 4 (d) -8

**DIRECTIONS (Qs. 18-20):** Select the missing number from the given responses.

(SSC Sub. Ins. 2012)

18. 

8	7	6
8	7	6
88	77	?
5632	3773	3132

- (a) 66 (b) 87 (c) 78 (d) 76
19.  $\begin{matrix} 28 & 35 & 32 \\ 7 & 5 & 8 \\ 4 & 3 & ? \\ 8 & 10 & 9 \end{matrix}$
- (a) 3 (b) 5 (c) 6 (d) 7
20.  $12(288)_2; 5(50)_2, 19(?)_2$
- (a) 722 (b) 324 (c) 776 (d) 684

**DIRECTIONS (Qs. 21 - 23):** Select the missing number/letter from the given responses.

(SSC CHSL 2012)

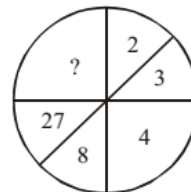
21.  $\begin{matrix} ? & 27 \\ 9 & 5 \end{matrix}$
- (a) 14 (b) 15 (c) 12 (d) 13
22.  $\begin{matrix} R & Q & L \\ S & P & M \\ T & ? & N \end{matrix}$
- (a) O (b) R (c) W (d) V
23.  $\begin{matrix} 7 & 6 & 15 \\ 10 & ? & 12 \\ 35 & 12 & 90 \end{matrix}$
- (a) 9 (b) 4 (c) 25 (d) 11

**DIRECTIONS (Qs. 24 - 26):** Select the missing number from the given responses.

(SSC CGL 1<sup>st</sup> Sit. 2013)

24.  $\begin{matrix} 3 & 4 & 6 \\ 5 & 7 & 3 \\ 1 & 2 & 7 \\ 35 & 69 & ? \end{matrix}$
- (a) 82 (b) 94 (c) 84 (d) 42
25.  $\begin{matrix} 16 & 49 & 64 \\ 25 & 36 & 81 \\ 9 & 13 & ? \end{matrix}$
- (a) 21 (b) 22 (c) 17 (d) 14
26. Select the missing number from the given responses.

(SSC Multitasking 2013)

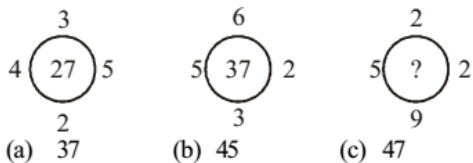


- (a) 56 (b) 49 (c) 45 (d) 64

**DIRECTIONS (Qs. 27- 30) :** In the following questions, select the missing number from the given responses.

27. 81 64 16 (SSC CGL 2<sup>nd</sup> Sit. 2013)  
 4 9 49  
 36 16 25  
 108 96 ?  
 (a) 230 (b) 140 (c) 120 (d) 410
28. 25 5 5  
 30 5 6  
 35 ? 5  
 (a) 5 (b) 4 (c) 6 (d) 7
29. 24 51 67  
 2 4 6  
 5 7 5  
 53 211 ?  
 (a) 135 (b) 235 (c) 347 (d) 407

30. Find the missing number.



**DIRECTIONS (Qs. 31 - 33) :** Select the missing number from the given responses.

- (SSC CGL 2<sup>nd</sup> Sit. 2013)
31. 3 5 8 7  
 4 6 4 6  
 5 2 2 3  
 ---  
 58 58 62 ?  
 (a) 122 (b) 128 (c) 124 (d) 126
32. 4 3 2  
 6 9 10  
 9 27 ?  
 (a) 20 (b) 50 (c) 54 (d) 30
33. 84, 81 88  
 14 12 18 9 ? 11  
 (a) 12 (b) 14 (c) 16 (d) 10

**DIRECTIONS (Qs. 34 - 35) :** In the following questions, select the missing number from the given responses:

- (SSC CGL 1<sup>st</sup> Sit. 2013)
34. 54 30 112 42 ? 28  
 24 70 38  
 (a) 176 (b) 166 (c) 116 (d) 66
35. 216 209 202  
 522 515 508  
 633 626 ?  
 (a) 620 (b) 608 (c) 602 (d) 619

**DIRECTIONS (Qs. 36 - 37):** In the following questions, select the missing number from the given responses.

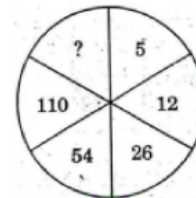
(SSC Sub. Ins. 2013)

36. (a) 330 (b) 336 (c) 428 (d) 420
37. 12 15 16  
 03 04 05  
 04 06 04  
 40 66 ?  
 (a) 104 (b) 320 (c) 25 (d) 84

**DIRECTIONS (Qs. 38 - 39) :** In the following questions select the missing number from the given responses.

(SSC CHSL 2013)

38. 5 25 5  
 7 49 7  
 6 ? 6  
 (a) 38 (b) 40 (c) 36 (d) 35
39. 96 100 132  
 6 4 6  
 5 7 3  
 21 32 ?  
 (a) 32 (b) 20 (c) 25 (d) 30
40. Select the missing number from the given responses:



(SSC CHSL 2013)

- (a) 132 (b) 122 (c) 222 (d) 212

**DIRECTIONS (Qs. 41- 42) :** Select the missing number from the given responses.

(SSC Sten. 2013)

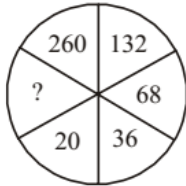
41. 3 5 8  
 5 7 6  
 4 2 ?  
 60 70 144  
 (a) 18 (b) 48 (c) 3 (d) 4
42. 6 18 9  
 12 36 18  
 24 ? 36  
 (a) 18 (b) 72 (c) 54 (d) 60

**DIRECTIONS (Qs. 43 - 47):** Select the missing number from the given responses.

(SSC CGL 2014)

43. 7 6 6  
 8 6 ?  
 3 4 5  
 168 144 120  
 (a) 8 (b) 10 (c) 5 (d) 4

44.  $\begin{matrix} 8 & 5 & & 6 \\ 3 & 7 & & 5 \\ 1 & 4 & & 2 \\ 74 & 90 & & ? \end{matrix}$   
 (a) 65 (b) 85 (c) 52 (d) 76
45.  $\begin{matrix} 22 & 46 & & 24 \\ 27 & 58 & & 31 \\ 32 & 68 & & ? \end{matrix}$   
 (a) 46 (b) 36 (c) 32 (d) 38
46. Select the missing number from the given responses.  
 $\begin{matrix} 121 & 156 & 105 \\ 145 & 187 & 126 \\ 115 & 190 & ? \end{matrix}$   
 (a) 231 (b) 225 (c) 255 (d) 305
47. Find the missing number from the given responses.



- (a) 12 (b) 10 (c) 9 (d) 8

**DIRECTIONS (Qs. 48-49):** In questions below, select the missing number from the given responses

(SSC Sub. Ins. 2014)

48. 

7	9	8
2	4	3
5	7	6
16	32	?

- (a) 17 (b) 23  
 (c) 47 (d) 73

49.  $\begin{matrix} \text{3} & \text{9} \\ \text{7} & \text{8} \\ \text{81} & \text{5} \end{matrix}$   $\begin{matrix} \text{2} & \text{8} \\ \text{4} & \text{6} \\ \text{64} & \text{6} \end{matrix}$   $\begin{matrix} \text{4} & \text{7} \\ \text{?} & \text{5} \\ \text{49} & \text{5} \end{matrix}$   
 (a) 1 (b) 8  
 (c) 6 (d) 16

**DIRECTIONS (Qs. 50-51):** Select the missing number from the given responses.

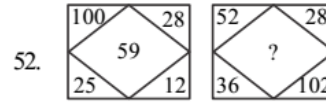
(SSC CHSL 2014)

50.  $\begin{matrix} 81 & & 729 \\ & \diagdown & / \\ & 9 & \end{matrix}$   $\begin{matrix} 64 & & 512 \\ & \diagdown & / \\ & 8 & \end{matrix}$   $\begin{matrix} 49 & & ? \\ & \diagdown & / \\ & 7 & \end{matrix}$   
 (a) 444 (b) 515  
 (c) 343 (d) 373

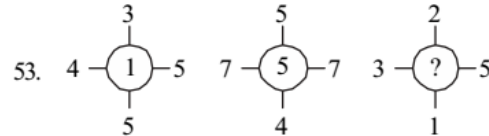
51.  $\begin{matrix} 18 & 11 & 6 & 12 \\ 9 & 38 & 6 & 19 & 32 & 9 & 26 & 44 & 3 & 39 & ? & 19 \\ 17 & & 11 & & 15 & & 8 \\ (a) & 9 & & & (b) & 40 \\ (c) & 7 & & & (d) & 36 \end{matrix}$

**DIRECTIONS (Qs. 52-54):** Select the missing number from the given responses.

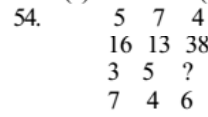
(SSC Sten. 2014)



- (a) 50 (b) 90  
 (c) 218 (d) 64



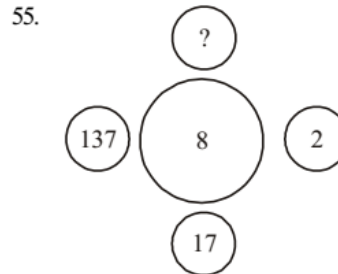
- (a) 11 (b) 3 (c) 1 (d) 5



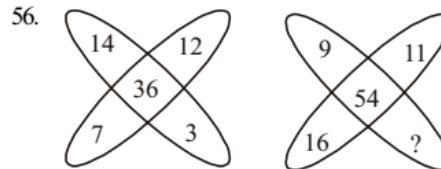
- (a) 6 (b) 7 (c) 9 (d) 8

**DIRECTIONS (Qs. 55-59):** In the following questions, select the missing number from the given responses.

(SSC CGL 1<sup>st</sup> Sit. 2015)



- (a) 97 (b) 907 (c) 1097 (d) 9107



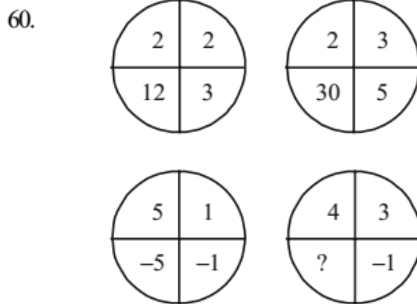
- (a) 12 (b) 17 (c) 18 (d) 16
57.  $\begin{matrix} 9 & 11 & 13 \\ 13 & 15 & 17 \\ 10 & 12 & 14 \\ 14 & 16 & 18 \\ 11 & 13 & ? \end{matrix}$   
 (a) 22 (b) 14 (c) 15 (d) 21

3	2	2	-1	6	5
4	24	-2	4	0	?

- (a) 30 (b) 11  
 (c) 0 (d) 1
59.  $\begin{matrix} 7 & 5 & & 3 \\ 8 & 4 & & 9 \\ 2 & 8 & & ? \\ 112 & 160 & & 162 \end{matrix}$   
 (a) 4 (b) 6  
 (c) 8 (d) 12

**DIRECTIONS (Qs. 60 - 64):** In questions, select the missing number from the given responses.

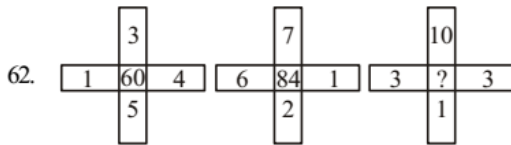
(SSC CGL 1<sup>st</sup> Sit. 2015)



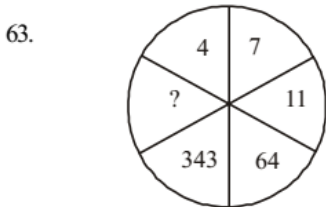
- (a) 12 (b) 7  
 (c) -12 (d) 9

61. I. 40 32 72 12  
 II. 30 24 54 9  
 III. 54 ? 90 15

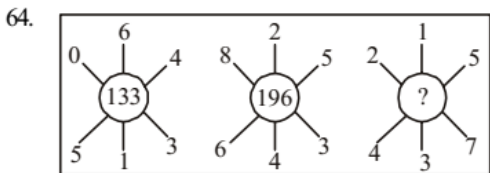
- (a) 49 (b) 36  
 (c) 46 (d) 48



- (a) 16 (b) 12  
 (c) 90 (d) 48



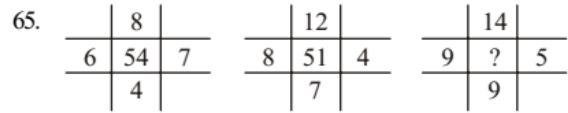
- (a) 1332 (b) 1321 (c) 1231 (d) 1331



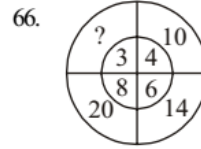
- (a) 535 (b) 451 (c) 702 (d) 154

**DIRECTIONS (Qs. 65 - 67):** In questions below, Select the missing number from the given responses.

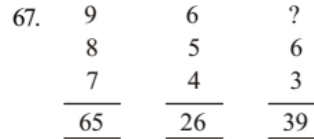
(SSC Sub. Ins. 2015)



- (a) 53 (b) 71 (c) 76 (d) 68



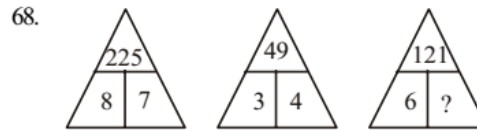
- (a) 24 (b) 12 (c) 18 (d) 19



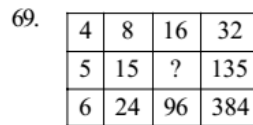
- (a) 8 (b) 7 (c) 10 (d) 9

**DIRECTIONS (Qs. 68 - 71):** Select the missing number from the given responses.

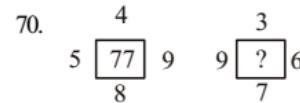
(SSC CHSL 2015)



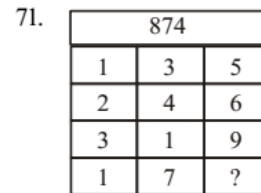
- (a) 20 (b) 5  
 (c) 4 (d) 21



- (a) 45 (b) 80  
 (c) 30 (d) 32



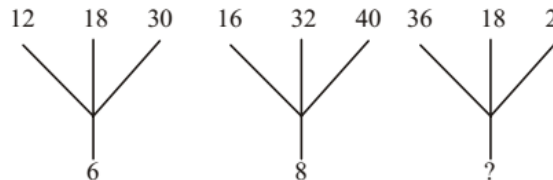
- (a) 79 (b) 73  
 (c) 75 (d) 77

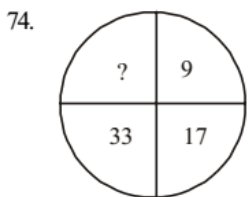
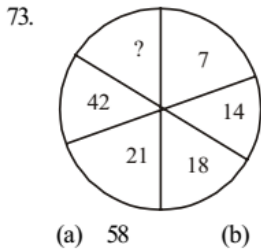


- (a) 6 (b) 8  
 (c) 2 (d) 4

**DIRECTIONS (Qs. 72 - 78) :** Select the missing number from the given responses.

(SSC CHSL 2015)

72. 
- (a) 12      (b) 18      (c) 6      (d) 9



75. Select the missing number from the given responses:

(SSC CGL 1<sup>st</sup> Sit. 2016)

6	5	26
4	7	32
?	9	44

- (a) 8      (b) 31      (c) 32      (d) 36

76. Select the missing number from the given alternatives:

(SSC CGL 1<sup>st</sup> Sit. 2016)

7	9	8
8	9	?
4	9	6
60	90	70

- (a) 9      (b) 8      (c) 7      (d) 6

77. Select the missing numbers from the given responses

(SSC CGL 1<sup>st</sup> Sit. 2016)

43	25	?
21	40	35
35	34	28

- (a) 36      (b) 46      (c) 40      (d) 26

78. Find the missing number from the given alternatives

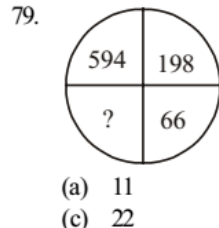
(SSC CGL 1<sup>st</sup> Sit. 2016)

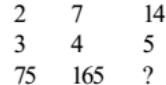
7	10	5
16	40	8
15	?	9

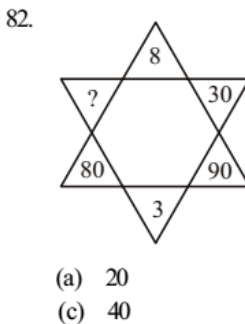
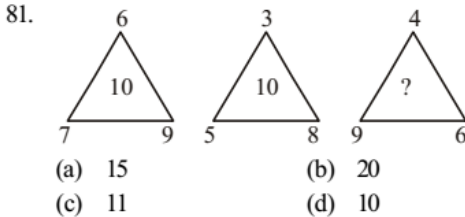
- (a) 75      (b) 45      (c) 20      (d) 30

**DIRECTIONS (Qs. 79 - 82) :** In the questions, select the missing number from the given responses.

(SSC Sten. 2016)

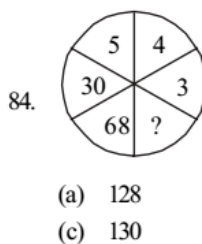
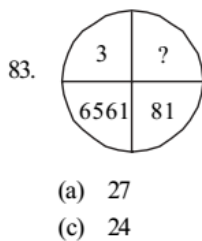


80. 
- (a) 165      (b) 425  
(c) 185      (d) 285



**DIRECTIONS (Qs. 83 - 86) :** In the following questions, select the missing number from the given responses.

(SSC Sub. Ins. 2016)



144	25	13
196	29	15
324	?	19

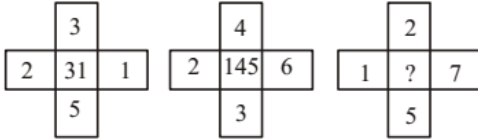
85.

- (a) 41 (b) 39  
(c) 37 (d) 29

86. 16 25 48 8  
2 5 3 6  
8 25 36 16  
4 5 4 ?

- (a) 3 (b) 8  
(c) 12 (d) 6

87. In the following question, select the number which can be placed at the sign of question non marking the given alternatives. (SSC CGL 2017)



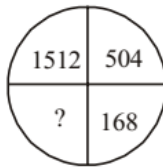
- (a) 43 (b) 49  
(c) 59 (d) 71

88. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives. (SSC CGL 2017)

7	6	3
2	5	1
8	9	4
115	273	?

- (a) 14 (b) 15  
(c) 16 (d) 18

89. In the following question, select the number which can be at the sign of question mark (?) from the given alternatives. (SSC CGL 2017)



- (a) 53 (b) 56  
(c) 59 (d) 66

90. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives. (SSC CGL 2017)

3	10	6	186
9	5	3	138
5	7	1	36
3	2	5	?

- (a) 35 (b) 42  
(c) 45 (d) 95

91. In the following question, select the missing number from the given series. (SSC CHSL 2017)

49	169	484
81	144	625
16	25	?

- (a) 37 (b) 47  
(c) 48 (d) 25

92. Find the missing number from the given responses, (SSC MTS 2017)

7	3	10
3	4	7
2	7	?
42	84	140

- (a) 2 (b) 17  
(c) 9 (d) 34

93. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives. (SSC Sub. Ins. 2017)

7	3	2
6	11	5
5	1	8
72	?	50

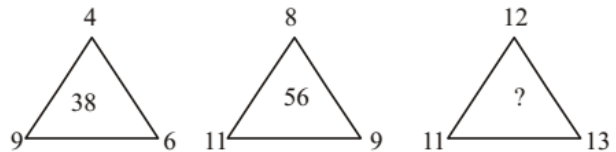
- (a) 38 (b) 40  
(c) 42 (d) 44

94. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives. (SSC Sub. Ins. 2017)

1	7	2
8	6	4
9	2	5
4	7	?

- (a) 9 (b) 10  
(c) 11 (d) 12

95. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives. (SSC Sten. 2017)



- (a) 72 (b) 78  
(c) 108 (d) 90



96. In the following question, select the letter which can be placed at the sign of question mark (?) from the given alternatives. (SSC Sten. 2017)



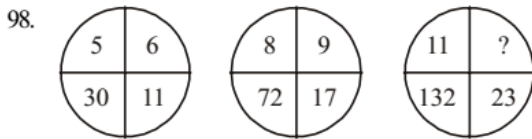
- (a) X (b) Y  
(c) Z (d) A

**DIRECTIONS (97–98) :** In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

97. (SSC Sten. 2017)

5	7	6	36
10	?	17	64
9	11	8	56

- (a) 5 (b) 6  
(c) 7 (d) 8



- (a) 10 (b) 12  
(c) 14 (d) 16

99. Find the missing number from the below options. (SSC CGL 2018)

19 78 20  
25 144 47  
16 ? 13

- (a) 96 (b) 76 (c) 58 (d) 29

100. Find the missing number from the below options. (SSC CGL 2018)

12 7 95  
14 8 132  
16 9 ?

- (a) 175 (b) 164 (c) 185 (d) 154

101. Select the missing number from the given options. (SSC CGL 2018)

36 52 86  
28 40 12  
32 46 ?

- (a) 43 (b) 53  
(c) 49 (d) 51

102. Select the missing number from the given options. (SSC CGL 2018)

2 3 5  
125 343 216  
3 4 ?

- (a) 2 (b) 1  
(c) 4 (d) 3

103. Find the missing number from the below options.

(SSC Stenographer 2018)

4 9 9  
7 4 ?  
11 13 19

- (a) 11 (b) 9 (c) 8 (d) 10

104. Find the missing number from the below options.

(SSC Stenographer 2018)

16 25 81  
36 49 9  
10 12 ?

- (a) 15 (b) 12 (c) 21 (d) 36

105. Find the missing number from the below options.

(SSC Stenographer 2018)

3 10  
5 8  
7 ?  
5 8

- (a) 7 (b) 5 (c) 6 (d) 8

106. Study the given carefully and select the number that can replace the question mark (?) in it. (SSC CGL 2019-20)

6	21	14
40	500	?
8	25	7

- (a) 78 (b) 98  
(c) 91 (d) 84

107. Study the given pattern carefully and select the number that can replace the question mark (?) in it. (SSC MTS 2019-20)

7 6 3 48  
4 9 8 63  
2 5 7 ?

- (a) 28 (b) 42  
(c) 52 (d) 56

108. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

25 64 81  
23 41 38  
18 33 ?

(SSC CGL 2020-21)

- (a) 17 (b) 27 (c) 19 (d) 29

109. Study the given pattern carefully and select the number that can replace the question mark (?) in it? (SSC Stenographer 2020-21)

53 63 ?  
48 58 40  
49 25 49

- (a) 58 (b) 51 (c) 47 (d) 49

110. Study the given pattern carefully and select the number that can replace the question mark (?) in it. (SSC Stenographer 2020-21)

4 8 128  
3 9 108  
5 10 ?

- (a) 236 (b) 205 (c) 225 (d) 220

111. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

(SSC Stenographer 2020-21)

15 12 81  
17 14 93  
15 11 ?

- (a) 104 (b) 113 (c) 97 (d) 181

112. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

(SSC Sub-Inspector 2020-21)

14	16	60
11	17	?
15	18	99

- (a) 78 (b) 168 (c) 144 (d) 89

113. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

(SSC Sub-Inspector 2020-21)

?	8	11
7	6	5
48	63	72

- (a) 7 (b) 5 (c) 6 (d) 4

114. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

(SSC Sub-Inspector 2020-21)

28	58	118
21	44	90
47	96	?

- (a) 194 (b) 150 (c) 176 (d) 188

115. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

(SSC Sub-Inspector 2020-21)

54	40	56
68	57	44
47	39	?

- (a) 22  
(b) 30  
(c) 32  
(d) 39

## Hints & Solutions

1. (a)  $1 + 7 + 3 + 5 + 2 + 6 = 24$   
 $4 + 3 + 1 + 3 + 2 + 5 = 18$

Therefore,

$$2 + 5 + 3 + 4 + 7 + 1 = \boxed{22}$$

2. (b) As,  $5 \times 3 + 1 = 16$

$$16 \times 3 + 1 = 49$$

$$9 \times 3 + 2 = 29$$

$$29 \times 3 + 2 = 89$$

Therefore,

$$15 \times 3 + 3 = \boxed{48}$$

$$48 \times 3 + 3 = 147$$

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

$$B = 61 \times 15 = 915$$

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

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

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

$$6 + 3 = 9 \text{ and } 9 \times 3 = 27$$

$$12 + 4 = 16 \text{ and ?}$$

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

5. (c) Columnwise

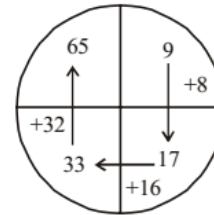
$$\text{I. } 2 \times 7 \times 9 = 126$$

$$\text{II. } 7 \times 3 \times 8 = 168$$

$$\text{III. } 9 \times 4 \times ? = 216$$

$$\therefore ? = \frac{216}{9 \times 4} = \boxed{6}$$

6. (d)



7. (c) Column wise

First Column,

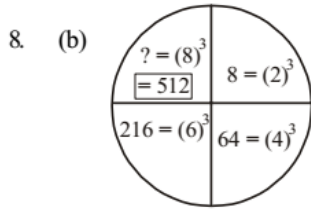
$$(7)^2 + (4)^2 + (2)^2 = 49 + 16 + 4 = 69$$

Second Column,

$$(3)^2 + (9)^2 + (1)^2 = 9 + 81 + 1 = 91$$

Similarly, In third column,

$$(2)^2 + (6)^2 + (5)^2 = 4 + 36 + 25 = \boxed{65}$$



9. (d) The product of two numbers in a sector is equal to the central number in the previous sector.

$$3 \times 5 = 15$$

$$8 \times 3 = 24$$

$$7 \times 2 = 14$$

$$5 \times 3 = \boxed{15}$$

$$8 \times 4 = 32$$

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$7 \times 4 = 28$$

10. (c) First Column

$$10 + 12 + 4 + 10 = 36$$

$$\frac{36}{2} = 18$$

Second Column

$$11 + 12 + 12 + 5 = 40 = \frac{40}{2} = 20$$

Third Column

$$15 + 8 + 10 + 13 = 46 = \frac{46}{2} = \boxed{23}$$

11. (a)  $2 \times 3 \times 5 \times 4 = 120$

$$120 \times 120 = 14400$$

12. (b) The sum of numbers of the left vertically half part is equal to the sum of the numbers on the right.

$$1 + 7 + 9 + 5 + 1 + 9 + 6 + 4 = 42$$

Therefore,

$$? + 7 + 8 + 4 + 2 + 8 + 8 + 3 = 42$$

$$\Rightarrow ? = 42 - 40 = \boxed{2}$$

13. (b) First column  $(7 + 2) \times 4 = 36$

$$\text{Second Column } (6 + 8) \times 3 = 42$$

$$\text{Third Column } (9 + 4) \times ? = 26$$

$$\Rightarrow 13 \times ? = 26 \therefore ? = \frac{26}{13} = 2$$

14. (c) First Column

$$7 \times 4 - 3 = 28 - 3 = 25$$

Second Column

$$8 \times 9 - 2 = 72 - 2 = 70$$

Third column

$$6 \times 5 - ? = 29$$

$$\Rightarrow ? = 30 - 29 = \boxed{1}$$

15. (b) First Column

$$3 + 6 \times 9 = 3 + 54 = 57$$

Second Column

$$4 + 7 \times 1 = 4 + 7 = 11$$

Third Column

$$5 + 8 \times 2 \Rightarrow 5 + 16 = \boxed{21}$$

16. (c) As,  $3 \times 7 = 21$ ,  $11 \times 7 = 77$

$$4 \times 9 = 36, 12 \times 9 = 108$$

$$\text{Therefore, } 14 \times 8 = 112$$

$$? \times 8 = 24$$

$$\boxed{? = 3}$$

17. (b)  $12 \times 16 = 192 + 5 = 197$

$$16 \times 16 = 256 + 7 = 263$$

$$18 \times 20 = 360 \boxed{-4} = 356$$

18. (b)  $8 \times 8 \times 88 = 5632$

$$7 \times 7 \times 77 = 3773$$

$$\text{Similarly, } 6 \times 6 \times ? = 3132$$

$$\therefore ? = \frac{3132}{6 \times 6} = \boxed{87}$$

19. (b)  $28 \div 7 + 4 = 4 + 4 = 8$

$$35 \div 5 + 3 = 7 + 3 = 10$$

$$\text{Similarly, } 32 \div 8 + ? = 9$$

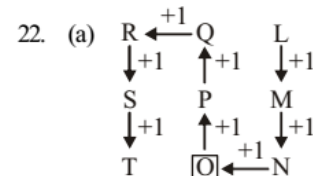
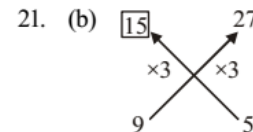
$$\Rightarrow 4 + ? = 9$$

$$\Rightarrow ? = 9 - 4 = \boxed{5}$$

20. (a)  $(12 \times 12) \times 2 = 144 \times 2 = 288$

$$(5 \times 5) \times 2 = 50$$

$$\text{Similarly, } (19 \times 19) \times 2 = 361 \times 2 = \boxed{722}$$



23. (b)  $7 \times (10 \div 2) = 35$ ,  $15 \times (12 \div 2) = 90$

$$\text{Similarly, } 6 \times (x \div 2) = 12$$

$$\Rightarrow 6 \times \frac{x}{2} = 12$$

$$\Rightarrow 3x = 12$$

$$\therefore x = 12 \div 3 = \boxed{4}$$

24. (b) First Column

$$(3)^2 + (5)^2 + (1)^2$$

$$\Rightarrow 9 + 25 + 1 = 35$$

Second Column

$$(4)^2 + (7)^2 + (2)^2$$

$$\Rightarrow 16 + 49 + 4 = 69$$

**Third column**

$$(6)^2 + (3)^2 + (7)^2$$

$$\Rightarrow 36 + 9 + 49 = \boxed{94}$$

25. (c) **First Column**

$$\sqrt{16} + \sqrt{25}$$

$$\Rightarrow 4 + 5 = 9$$

**Second Column**

$$\sqrt{49} + \sqrt{36}$$

$$\Rightarrow 7 + 6 = 13$$

**Third column**

$$\sqrt{64} + \sqrt{81}$$

$$\Rightarrow 8 + 9 = \boxed{17}$$

26. (d)  $2^3 = 8; 3^3 = 27$

$$\therefore 4^3 = 64$$

27. (b) **First Column**

$$\sqrt{81} \times \sqrt{4} \times \sqrt{36}$$

$$\Rightarrow 9 \times 2 \times 6 = 108$$

**Second Column**

$$\sqrt{64} \times \sqrt{9} \times \sqrt{16}$$

$$\Rightarrow 8 \times 3 \times 4 = 96$$

**Third column**

$$\sqrt{16} \times \sqrt{49} \times \sqrt{25}$$

$$\Rightarrow 4 \times 7 \times 5 = \boxed{140}$$

28. (d) First number in each row is the product of the second and third numbers.

**First Row**

$$25 = 5 \times 5$$

**Second Row**

$$30 = 5 \times 6$$

**Third Row**

$$35 = ? \times 5$$

$$\therefore ? = \frac{35}{5} = \boxed{7}$$

29. (d) **First Column**

$$24 \times 2 + 5 = 48 + 5 = 53$$

**Second Column**

$$51 \times 4 + 7 = 204 + 7 = 211$$

**Third Column**

$$67 \times 6 + 5 = 402 + 5 = \boxed{407}$$

30. (c) **First Figure**

$$3 + 5 + 2 + 4 = 14$$

$$\Rightarrow 14 + 13 = 27$$

**Second Figure**

$$6 + 2 + 3 + 5 = 16$$

$$\Rightarrow 16 + 21 = 37$$

**Third Figure**

$$2 + 2 + 9 + 5 = 18$$

$$\Rightarrow 18 + 29 = \boxed{47}$$

31. (c) **First Column**  $(3 \times 4 \times 5) - 2 = 58$

$$\text{Second Column } (5 \times 6 \times 2) - 2 = 58$$

$$\text{Third Column } (8 \times 4 \times 2) - 2 = 62$$

$$\text{Forth Column } (7 \times 6 \times 3) - 2 = \boxed{124}$$

32. (b)  $\sqrt{\text{First number} \times \text{Third number}}$

= Second number in each column.

**First Column**

$$\sqrt{4 \times 9} = \sqrt{36} = 6$$

**Second Column**

$$\sqrt{3 \times 27} = \sqrt{81} = 9$$

**Third column**

$$\sqrt{2 \times ?} = 10 \Rightarrow 2 \times ? = 100$$

$$\therefore ? = \frac{100}{2} = \boxed{50}$$

33. (c)  $84 \div 12 = 7$  and  $7 \times 2 = 14$

$$81 \div 9 = 9$$
 and  $9 \times 2 = 18$

$$88 \div 11 = 8$$
 and  $8 \times 2 = \boxed{16}$

34. (d)  $\begin{array}{cc} 54 & 30 \\ & \swarrow \searrow \\ & 24 \end{array}$

$$30 + 24 = 54$$

$$112 \quad 42$$

$$\swarrow \quad \searrow$$

$$70$$

$$42 + 70 = 112$$

Therefore,

$$? \quad 28$$

$$\swarrow \quad \searrow$$

$$38$$

$$? = 28 + 38 = \boxed{66}$$

35. (d) **First Row**

$$216 - 7 = 209; 209 - 7 = 202$$

**Second Row**

$$522 - 7 = 515; 515 - 7 = 508$$

**Third Row**

$$633 - 7 = 626; 626 - 7 = \boxed{619}$$

36. (b)  $6 + 18 = 24$

$$24 + 36 = 60$$

$$60 + 60 = 120$$

$$120 + 90 = 210$$

$$210 + 126 = \boxed{336}$$

37. (d) **First Column**

$$12 \times 3 + 4 = 40$$

**Second Column**

$$15 \times 4 + 6 = 66$$

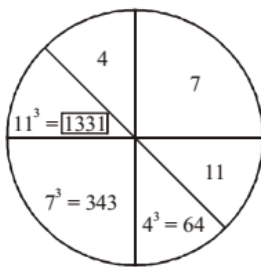
**Third Column**

$$16 \times 5 + 4 = \boxed{84}$$

38. (c) The second column number is the product of first and third column  
 $25 = 5 \times 5$   
 $49 = 7 \times 7$   
 $\boxed{36} = 6 \times 6$
39. (c) Column wise  
 Column I  $(96 \div 6) + 5 = 21$   
 Column II  $(100 \div 4) + 7 = 32$   
 Column III  $(132 \div 6) + 3 = \boxed{25}$
40. (c) Moving clockwise, the terms are :  
 $5 \times 2 + 2 = 12$   
 $12 \times 2 + 2 = 26$   
 $26 \times 2 + 2 = 54$   
 $54 \times 2 + 2 = 110$   
 So, missing number =  $110 \times 2 + 2 = \boxed{222}$
41. (c)  $3 \times 5 \times 4 = 60$   
 $5 \times 7 \times 2 = 70, 8 \times 6 \times ? = 144$   
 $? = \frac{144}{48} = 3$
42. (b)  $6 \times 2 = 12 \times 2 = 24$   
 $9 \times 2 = 18 \times 2 = 36$   
 $18 \times 2 = 36 \times 2 = \boxed{72}$
43. (d)  $7 \times 8 \times 3 = 168$   
 $6 \times 6 \times 4 = 144$   
 $6 \times x \times 5 = 120$   
 $\therefore 30x = 120$   
 $x = \frac{120}{30} = \boxed{4}$
44. (a)  $8^2 + 3^2 + 1^2 = 74$   
 $5^2 + 7^2 + 4^2 = 90$   
 $6^2 + 5^2 + 2^2 = \boxed{65}$
45. (b)  $46 - 22 = 24$   
 $58 - 27 = 31$   
 $68 - 32 = \boxed{36}$
46. (b)  $156 - 121 = 35 \times 3 = 105$   
 $187 - 145 = 42 \times 3 = 126$   
 $190 - 115 = 75 \times 3 = \boxed{225}$
47. (a)  $\boxed{12} \xrightarrow{+8} 20 \xrightarrow{+16} 36 \xrightarrow{+32} 68 \xrightarrow{+64} 132 \xrightarrow{128} 260$
48. (b)  $7 + 2^2 + 5 = 16$   
 $9 + 4^2 + 7 = 32$   
 $8 + 3^2 + 6 = \boxed{23}$
49. (c)  $3 + 9 - 5 = 7$   
 $2 + 8 - 6 = 4$   
 $4 + 7 - 5 = \boxed{6}$

50. (c)  $81 \times 9 = 729$   
 $64 \times 8 = 512$   
 $49 \times 7 = \boxed{343}$
51. (b) The pattern is  
 $(18 + 17) + (9 - 6) = 38$   
 $(11 + 11) + (19 - 9) = 32$   
 $(15 + 6) + (26 - 3) = 44$   
 $(12 + 8) + (39 - 19) = 40$
52. (b)  $(100 + 12) - (28 + 25) = 59$   
 Similarly,  $(102 + 52) - (36 + 28) = 90$
53. (d)  $(4 + 5) - (3 + 5) = 1$   
 $(7 + 7) - (5 + 4) = 5$   
 $(3 + 5) - (2 + 1) = \boxed{5}$
54. (b)  $7 \times 3 - 5 = 16$   
 $5 \times 4 - 7 = 13$   
 $6 \times \boxed{7} - 4 = 38$
55. (c)  $8 \times 2 + 1 = 17$   
 $8 \times 17 + 1 = 137$   
 $8 \times 137 + 1 = \boxed{1097}$
56. (c)  $(36) - (14 + 12 + 7) = 3$   
 $(54) - (9 + 11 + 16) = \boxed{18}$
57. (c)  $9 \xrightarrow{+4} 13 \xrightarrow{-3} 10 \xrightarrow{+4} 14 \xrightarrow{-3} 11$   
 $11 \xrightarrow{+4} 15 \xrightarrow{-3} 12 \xrightarrow{+4} 16 \xrightarrow{-3} 13$   
 $13 \xrightarrow{+4} 17 \xrightarrow{-3} 14 \xrightarrow{+4} 18 \xrightarrow{-3} \boxed{15}$   
 Hence, 15 is the correct answer.
58. (c)  $3 \times 4 \times 2 = 24$   
 $2 \times -2 \times -1 = 4$   
 $6 \times 0 \times 5 = \boxed{0}$
59. (b)  $7 \times 8 \times 2 = 112, 5 \times 4 \times 8 = 160$   
 $3 \times 9 \times ? = 162, 27 \times ? = 162$   
 $? = \frac{162}{27} = \boxed{6}$
60. (c)  $2 \times 2 \times 3 = 12$   
 $2 \times 3 \times 5 = 30$   
 $5 \times 1 \times -1 = -5$   
 $\therefore 4 \times 3 \times -1 = \boxed{-12}$
61. (b)  $40 + 32 = \frac{72}{6} = 12$   
 $30 + 24 = \frac{54}{6} = 9$   
 $54 + \boxed{36} = \frac{90}{6} = 15$
62. (c)  $1 \times 3 \times 4 \times 5 = 60$   
 $6 \times 7 \times 1 \times 2 = 84$   
 therefore,  $3 \times 10 \times 3 \times 1 = \boxed{90}$

63. (d)



64. (d) Figure follows the Rule

$$(0 + 6 + 4 + 3 + 1 + 5) \times 7 = 19 \times 7 = 133$$

$$(8 + 2 + 5 + 3 + 6 + 4) \times 7 = 28 \times 7 = 196$$

$$(2 + 1 + 5 + 7 + 3 + 4) \times 7 = 22 \times 7 = \boxed{154}$$

65. (d) The pattern is:

$$(6 \times 7) + 8 + 4 = 54$$

$$(8 \times 4) + 12 + 7 = 51$$

$$(9 \times 5) + 14 + 9 = 68$$

66. (d)  $3 + 4 + 3 = 10$ ,  $4 + 6 + 4 = 14$

$$8 + 6 + 6 = 20, 8 + 3 + 8 = \boxed{19}$$

67. (b)  $9 \times 8 - 7 = 65$ ,  $6 \times 5 - 4 = 26$

$$7 \times 6 - 3 = \boxed{39}$$

68. (b)  $225 = (15)^2 \Rightarrow (8 + 7)^2$

$$49 = (7)^2 \Rightarrow (3 + 4)^2$$

$$121 = (11)^2 \Rightarrow (6 + 5)^2$$

So missing number is 5.

69. (a)

4	$4^2 = 8$	$8^2 = 16$	$16^2 = 32$
5	$5^3 = 15$	$15^3 = \boxed{45}$	$45^3 = 135$
6	$6^4 = 24$	$24^4 = 96$	$96^4 = 384$

70. (c)  $9 \times 5 = 45$

$$8 \times 4 = 32$$

$$45 + 32 = 77$$

$$9 \times 6 = 54$$

$$3 \times 7 = 21$$

$$54 + 21 = \boxed{75}$$

71. (d)

874		
1	3	5
2	4	6
3	1	9
1	7	?

$$1 \ 3 \ 5$$

$$2 \ 4 \ 6$$

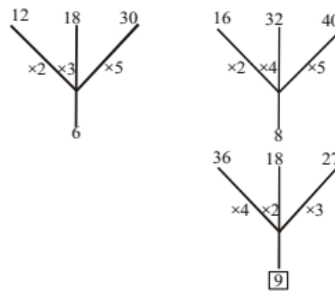
$$3 \ 1 \ 9$$

$$+ \ 1 \ 7 \ x$$

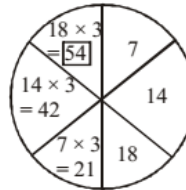
$$8 \ 7 \ 4$$

$$\text{So, } x = 4$$

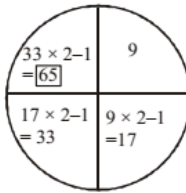
72. (d)



73. (c)



74. (b)



75. (a)

6	5	26
4	7	32
?	9	44

$$5 \times 4 + 6 = 26$$

$$7 \times 4 + 4 = 32$$

$$9 \times 4 + x = 44$$

$$x = 44 - 36$$

$$x = \boxed{8}$$

76. (b) Here  $R_1 \times R_2 + R_3 \rightarrow R_4$

$$\therefore 8 \times x + 6 = 70$$

$$8x = 64$$

$$x = \boxed{8}$$

77. (a) Each column sum upto 99

$$\therefore 99 - (35 + 28) = \boxed{36}$$

78. (d)

7	10	5
16	40	8
15	?	9

$$(7 - 5) \times 5 = 10$$

$$(16 - 8) \times 5 = 40$$

$$(15 - 9) \times 5 = \boxed{30}$$

79. (c)  $594 \div 3 = 198$ ,  $198 \div 3 = 66$ ,  $66 \div 3 = 22$

80. (d)  $(2 + 3) \times 15 = 75$

$$(7 + 4) \times 15 = 165$$

$$(14 + 5) \times 15 = \boxed{285}$$

81. (c)  $7 + 9 - 6 = 10$

$$5 + 8 - 3 = 10$$

$$9 + 6 - 4 = \boxed{11}$$

82. (c)  
 83. (d)  $3^1=3, 3^2=9, 3^4=81, 3^8=6561$   
 84. (c)  $3^3+3=30$   
 $4^3+4=68$   
 $5^3+5=130$

85. (c) As,

$144 = (12)^2$	$= 25 - 12$	$= 13$
$196 = (14)^2$	$= 29 - 14$	$= 15$
$324 = (18)^2$	$= 37 - 18$	$= 19$

86. (a)  $(16 \times 2) \div 8 = 4$   
 $(25 \times 5) \div 25 = 5$   
 $(48 \times 3) \div 36 = 4$   
 $(8 \times 6) \div 16 = 3$   
 87. (d) As,  
 $3 \times 1 \times 5 \times 2 + 1 = 31$  and  
 $4 \times 6 \times 3 \times 2 + 1 = 145$   
 Similarly,  
 $2 \times 7 \times 5 \times 1 + 1 = 71$   
 88. (b) Here,  
 $7 \times 2 \times 8 + 3 = 115$   
 $6 \times 5 \times 9 + 3 = 273$   
 $\therefore 3 \times 1 \times 4 + 3 = 15$

- So, answer is 15.  
 89. (b) The pattern is :  
 $1512 \div 3 = 504$   
 $504 \div 3 = 168$   
 $168 \div 3 = 56$ .  
 So, answer is 56.

90. (a) The pattern is :  
 As,  
 $3 \times 10 \times 6 + 6 = 186$   
 $9 \times 5 \times 3 + 3 = 138$   
 $5 \times 7 \times 1 + 1 = 36$   
 Similarly,  
 $3 \times 2 \times 5 + 5 = 35$ .

91. (b)  $\sqrt{49} = 7$     $\sqrt{169} = 13$     $\sqrt{484} = 22$   
 $\sqrt{81} = \frac{+9}{16}$     $\sqrt{144} = \frac{+12}{25}$     $\sqrt{625} = \frac{+25}{47}$

So, Answer is 47.

92. (a) The pattern is as follows :  
 $(7 \times 3 \times 2) = 42$   
 $(3 \times 4 \times 7) = 84$   
 $(10 \times 7 \times x) = 140$

$$\Rightarrow \therefore x = \frac{140}{70} = 2$$

$\therefore$  The missing number is = 2.

93. (d) The pattern is as follows :  
 $(7 \times 6) + (6 \times 5) = 42 + 30 = 72$   
 $(3 \times 11) + (11 \times 1) = 33 + 11 = 44$   
 $(2 \times 5) + (5 \times 8) = 10 + 40 = 50$

94. (c) The pattern is as follows :  
 $(1 + 8 + 9 + 4) = 22$   
 $(7 + 6 + 2 + 7) = 22$   
 $(2 + 4 + 5 + ?) = 22$   
 $? + 11 = 22$   
 $? = 22 - 11 = 11$

95. (a) As,  $(4 + 6 + 9) \times 2 = 38$   
 $(8 + 9 + 11) \times 2 = 56$   
 Similarly,  
 $(12 + 13 + 11) \times 2 = 72$

96. (c) The pattern is :  
 $B \xrightarrow{+3} E \xrightarrow{+4} I \xrightarrow{+5} N$   
 $N \xrightarrow{+3} Q \xrightarrow{+4} U \xrightarrow{+5} Z$   
 $S \xrightarrow{+3} V \xrightarrow{+4} \boxed{Z} \xrightarrow{+5} E$

97. (a) According to question,  
 As,  
 $(5 + 7 + 6) \times 2 = 36$   
 $(9 + 11 + 8) \times 2 = 56$   
 Similarly,  
 $(10 + ? + 17) \times 2 = 64$

$$(10 + ? + 17) = \frac{64}{2} = 32$$

$$27 + ? = 32$$

$$? = 32 - 27 = 5$$

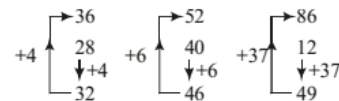
98. (b) The pattern is :  
 $5 + 6 = 11$  and  $5 \times 6 = 30$   
 $8 + 9 = 17$  and  $8 \times 9 = 72$   
 $11 + 12 = 23$  and  $11 \times 12 = 132$

99. (c)  
 $19 \quad 78 = (19 + 20) \times 2 \quad 20$   
 $25 \quad 144 = (25 + 47) \times 2 \quad 47$   
 $16 \quad 58 = (16 + 13) \times 2 \quad 13$

100. (a)

12	7	$95 = (12 + 7)(12 - 7)$
14	8	$132 = (14 + 8)(14 - 8)$
16	9	$175 = (16 + 9)(16 - 9)$

101. (c)



102. (b)  $2 \quad 3 \quad 5$   
 $(2 + 3)^3 = 125$     $(3 + 4)^3 = 343$     $(5 + 1)^3 = 216$   
 $3 \quad 4 \quad 1$

Hence, ? = 1

103. (d) The pattern is :  
 $(4 + 7) = 11$   
 $(9 + 4) = 13$   
 $(19 - 9) = 10$   
 So, option (d) is correct answer.

104. (b)  $\sqrt{16} + \sqrt{36} = 10$   
 $\sqrt{25} + \sqrt{49} = 12$   
 $\sqrt{81} + \sqrt{9} = 12$
105. (c)  $(3+7) = 10, (5+5) = 10$   
 $(10+6) = 16, (8+8) = 16$
106. (c) As,  $8 \times (6-1) \Rightarrow 8 \times 5 = 40$   
 $25 \times (21-1) \Rightarrow 25 \times 20 = 500$   
 Similarly,  $7 \times (14-1) \Rightarrow 7 \times 13 = 91$
107. (b) The pattern is as —  
 $7+6+3 = 16 \times 3 \rightarrow 48$   
 $4+9+8 = 21 \times 3 \rightarrow 63$   
 $2+5+7 = 14 \times 3 \rightarrow \boxed{42}$
108. (d) The Pattern in the Column is as :  
 $23-18=5, (5)^2=25$   
 $41-33=8, (8)^2=64$   
 $38-29=9, (9)^2=81$
109. (c) First column =  $55-48=7 \Rightarrow 7^2=49$   
 Similarly, Third column =  $47-40=7 \Rightarrow 7^2=49$
110. (c)  $4^3+8^2=128$   
 $3^3+9^2=108$   
 $5^3+10^2=225$

111. (a)  $(15+12) \times (15-12) = 81$   
 $(17+14) \times (17-14) = 93$   
 $(15+11) \times (15-11) = 104$
112. (b)  $14+16=30 \times (16-14) = 30 \times 2 = 60$   
 $11+17=28 \times (17-11) = 28 \times 6 = 168$   
 $15+18=33 \times (18-15) = 33 \times 3 = 99$
113. (b) The pattern is,  
 $(8+1) \times (6+1) = 9 \times 7 = 63$   
 $(11+1) \times (5+1) = 12 \times 6 = 72$   
 Similarly,  
 $(?+1) \times (7+1) = (?+1) \times 8 = 48$   
 $\Rightarrow ?+1 = \frac{48}{8} = 6$   
 $\Rightarrow ? = 6-1 = 5$
114. (a)  $58-28=30$   
 $= 30 \times 4 - 2 = 118$   
 Similarly,  
 $96-47=49$   
 $\Rightarrow 49 \times 4 - 2 = 194$
115. (c) The pattern is :  
 $54-40=14 \rightarrow 14 \times 4 = 56$   
 $68-57=11 \rightarrow 11 \times 4 = 44$   
 Similarly,  
 $47-39=8 \rightarrow 8 \times 4 = 32$





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