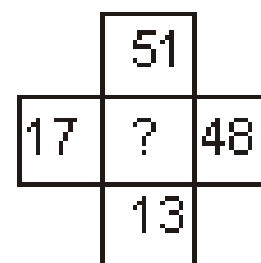
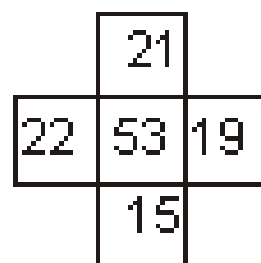
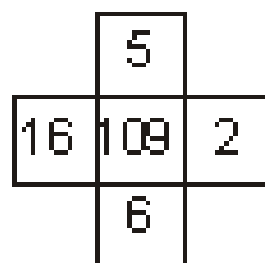




# Inserting the Missing Character

In this chapter questions contain a figure, a set of figures, an arrangement or a matrix, each of which bears certain characters, be it numbers, letters or a group/combination of letters/numbers which follow a particular pattern. You are required to identify and decipher this pattern and accordingly find the missing character in the figure.

## Example1 :



a) 7

b) 25

c) 49

d) 129

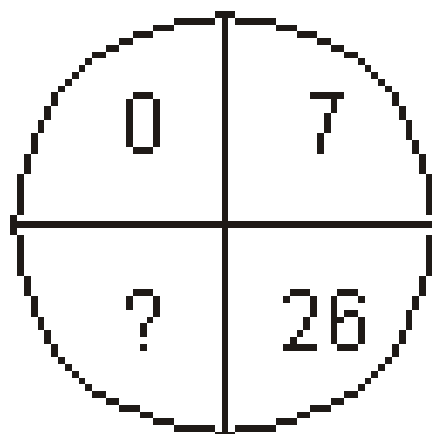
***Solution*** The pattern is

$$(16 - 6)^2 + (5 - 2)^2 = 10^2 + 3^2 = 109$$

$$(22 - 15)^2 + (21 - 19)^2 = 7^2 + 2^2 = 53$$

$$\text{So, the missing number} = (17 - 13)^2 + (51 - 48)^2 = 4^2 + 3^2 = 25$$

Example 2:



a) 45

b) 50

c) 60

d) 63

**Solution.** Moving clockwise direction, the numbers are

$$1^3 - 1 = 0, 2^3 - 1 = 7, 3^3 - 1 = 26 \text{ and } 4^3 - 1 = 63$$

## Practice Questions:

1.

51	11	61
64	30	32
35	?	43

- a) 25
- b) 27
- c) 32
- d) 37

Ans: B

2.

7	4	5
8	7	6
3	3	?
29	19	31

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

Ans: C

3.

18	24	32
12	14	16
3	?	4
72	112	128

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

Ans: B

4.

13	12	5
17	15	8
25	24	?
29	21	20

- a) 7
- b) 9
- c) 11
- d) 15

Ans: A



5.

3	15	4
7	38	5
3	?	5

- a) 15
- b) 18
- c) 19
- d) 20

Ans: B

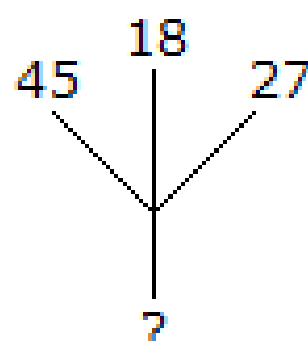
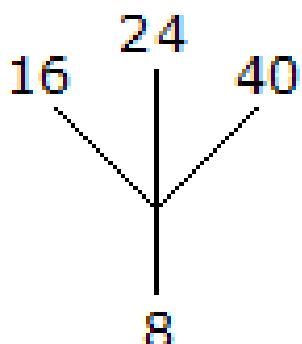
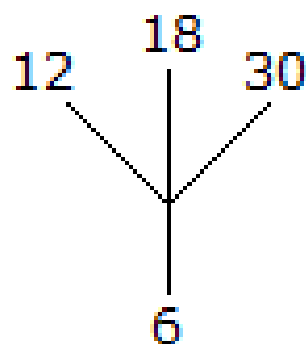
6.

1	2	3
11	7	5
120	45	?

- a) 19
- b) 17
- c) 16
- d) 15

Ans: C

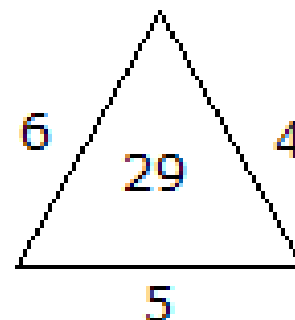
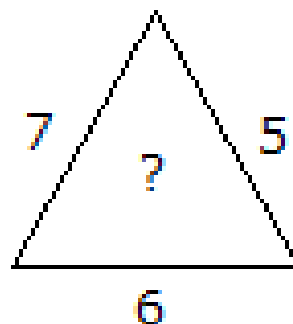
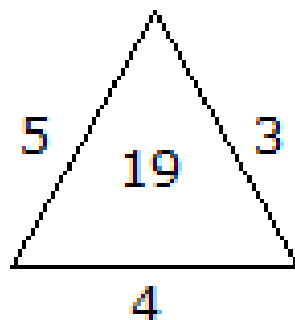
7.



- a) 6
- b) 9
- c) 12
- d) 18

Ans: B

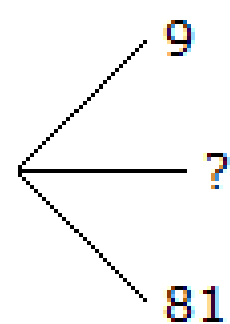
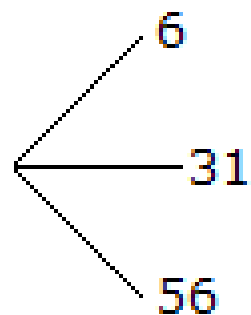
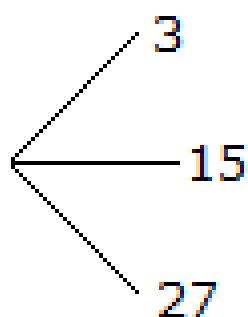
8.



- a) 25
- b) 37
- c) 41
- d) 47

Ans: C

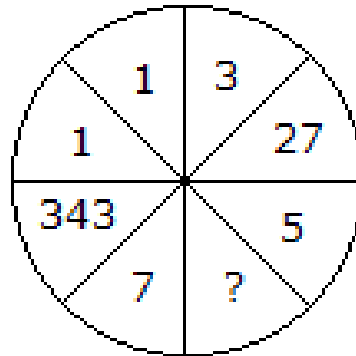
9.



- a) 45
- b) 41
- c) 32
- d) 40

Ans: A

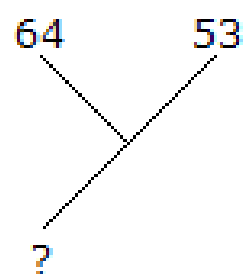
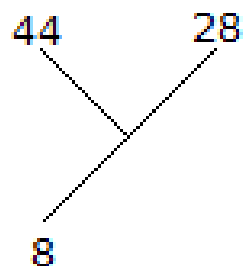
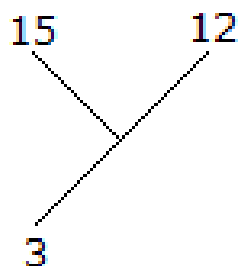
10.



- a) 25
- b) 625
- c) 125
- d) 50

Ans: C

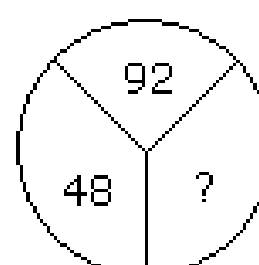
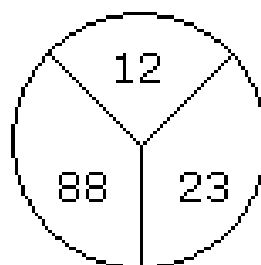
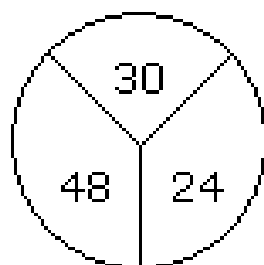
11.



- a) 30
- b) 13
- c) 70
- d) 118

Ans: B

12.

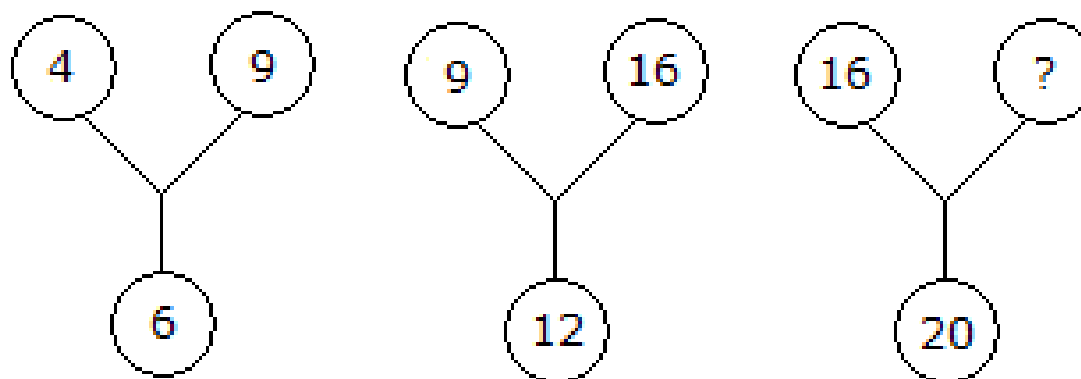


- a) 60
- b) 46
- c) 86
- d) 75

Ans: C



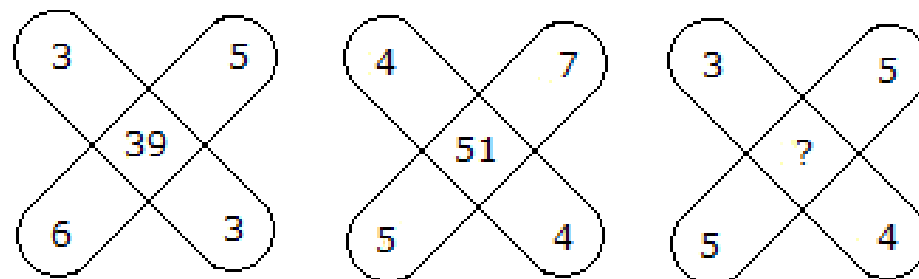
13.



- a) 60
- b) 50
- c) 25
- d) 21

Ans: C

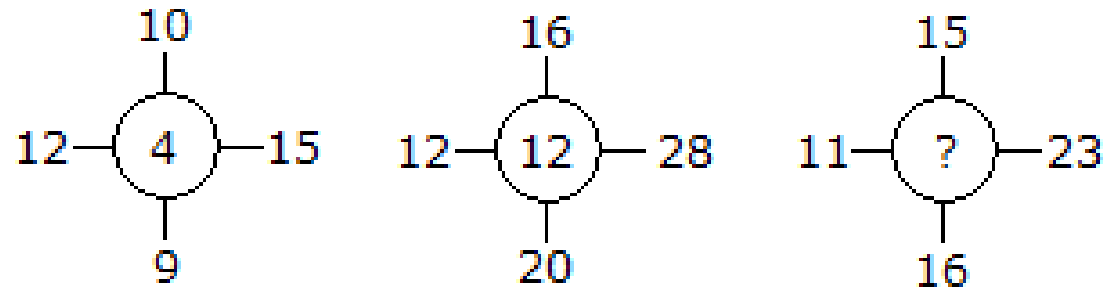
14.



- a) 47
- b) 45
- c) 37
- d) 35

Ans: C

15.



- a) 11
- b) 14
- c) 10
- d) 12

Ans: A

THANK  
YOU!