

Missing Character

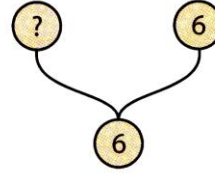
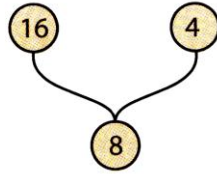
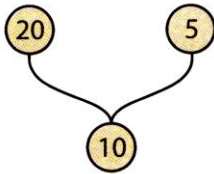
REASONING WORKBOOK

Inserting the Missing Character

Usually a figure/design or a set of figures or a matrix is given, each of which bears some numbers or letters or both and blank space(s). A student is required to fill in the blank(s) by deciphering the pattern.

EXAMPLE

1. Find the missing number '?' in the pattern given below.



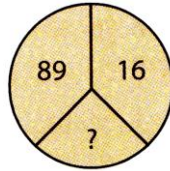
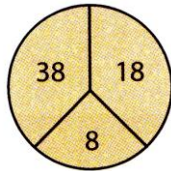
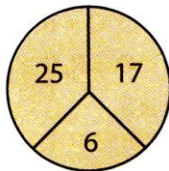
- (a) 8 (b) 6 (c) 4 (d) 12

Explanation (b):

Number in bottom = $\sqrt{\text{Product of numbers on the top}}$

$$\therefore 6 = \sqrt{x \times 6} \Rightarrow 36 = 6x \Rightarrow x = 6.$$

2. In the following question, a set of figures carrying certain characters, is given. Assuming that the characters in each set follow a similar pattern, find the missing character.



- (a) 13 (b) 15 (c) 17 (d) 19

Explanation (b):

The sum of the two numbers in the upper part is 7 times the number in the lower part. So, missing number
 $= (89 + 16) \div 7 = 15.$