

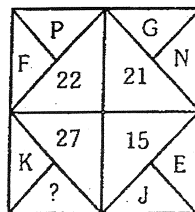
5. Inserting the Missing Character

In such type of questions, a figure, a set of figures, an arrangement or a matrix is given, each of which bears certain characters, be it numbers, letters or a group/combination of letters/numbers; following a certain pattern. The candidate is required to decipher this pattern and accordingly find the missing character in the figure.

Solved Examples

Direction : Find the missing character from among the given alternatives.

Ex.1



(1) M

(2) P

(3) Q

(4) S

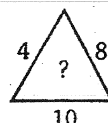
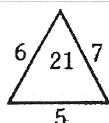
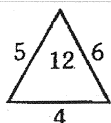
Sol. Putting A = 1, B = 2, C = 3, D = 4, ..., X = 24, Y = 25, Z = 26, we have:

$$F + P = 6 + 16 = 22; G + N = 7 + 14 = 21; J + E = 10 + 5 = 15.$$

Since K = 11, so value corresponding to missing letter = $(27 - 11) = 16$.

So, the missing letter is the 16th letter of the English alphabet, which is P. Hence, the answer is (2).

Ex.2



(1) 22

(2) 34

(3) 32

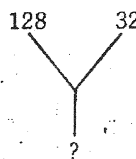
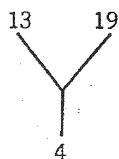
(4) None of these

Sol. Clearly, we have = $\frac{5 \times 6 \times 4}{10} = 12$; $\frac{6 \times 7 \times 5}{10} = 21$;

So, missing number = $\frac{4 \times 8 \times 10}{10} = 32$

Hence, the answer is (3).

Ex.3.



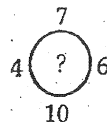
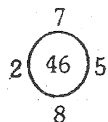
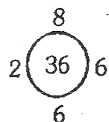
(1) 10

(2) 15

(3) 20

(4) 25

Ex.4.



(1) 42

(2) 46

(3) 48

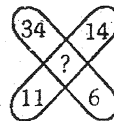
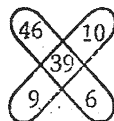
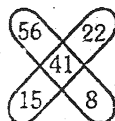
(4) 50

Sol. We have: $(8 \times 6) - (2 \times 6) = 36$, $(7 \times 8) - (2 \times 5) = 46$.

$\therefore$ Missing number = $(7 \times 10) - (4 \times 6) = 46$.

Hence, the answer is (2).

Ex.5



(1) 12

(2) 25

(3) 48

(4) 52

Sol. We have: $(56 + 15) - (22 + 8) = 41$, $(46 + 9) - (10 + 6) = 39$.

So, missing number = $(34 + 11) - (14 + 6) = 25$.

Hence, the answer is (2).

Ex.6

	5	
16	109	2
	6	

	21	
22	53	19
	15	

	51	
17	?	48
	13	

(1) 7

(2) 25

(3) 49

(4) 129

Sol. We have: $(16 - 6)^2 + (5 - 2)^2 = 10^2 + 3^2 = 109$; $(22 - 15)^2 + (21 - 19)^2 = 7^2 + 2^2 = 53$.

So, missing number = $(17 - 13)^2 + (51 - 48)^2 = 4^2 + 3^2 = 25$.

Hence, the answer is (2).

Ex.7

1	2	3
4	5	6
7	8	9
27	38	?

(1) 49

(2) 50

(3) 51

(4) 52

Sol. In the first column, $(4 \times 7) - 1 = 27$.

In the second column, $(5 \times 8) - 2 = 38$.

So, missing number = $(6 \times 9) - 3 = (54 - 3) = 51$.

Hence, the answer is (3).

Ex.8

F	I	O
A	J	K
E	M	?

(1) P

(2) R

(3) S

(4) V

Sol. Putting A = 1, B = 2, C = 3, ..., M = 13, ..., X = 24, Y = 25, Z = 26, we have:

In the first row, $F + I = 6 + 9 = 15 = O$.

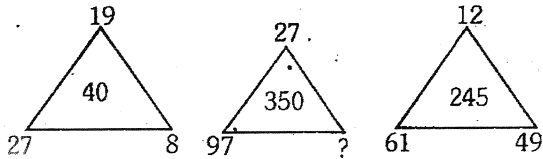
In the second row, $A + J = 1 + 10 = 11 = K$.

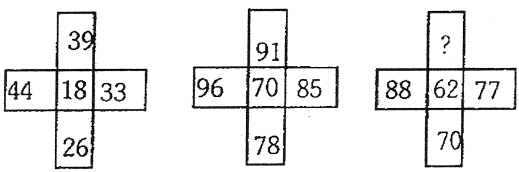
So, in the third row, missing letter = $E + M = 5 + 13 = 18 = R$.

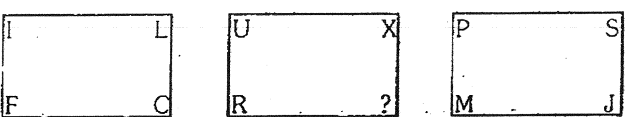
Hence, the answer is (2).

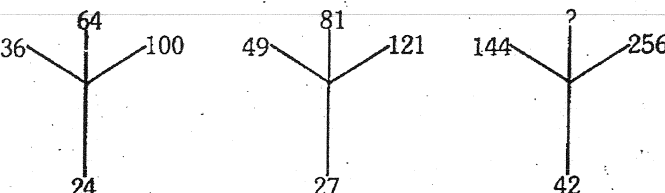
EXERCISE

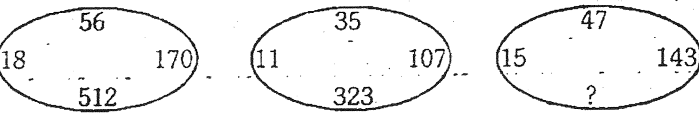
Direction (Q.1 to Q.20) : Find the missing term (?)

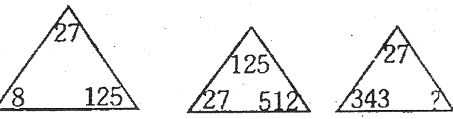
1. 
 (1) 35 (2) 80 (3) 50 (4) None of these

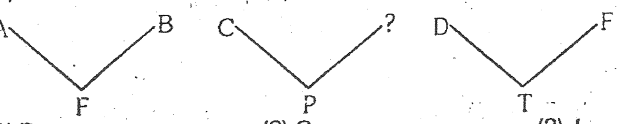
2. 
 (1) 83 (2) 86 (3) 81 (4) None of these

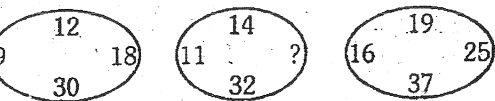
3. 
 (1) O (2) Z (3) N (4) None of these

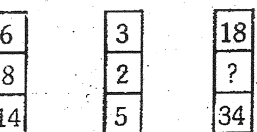
4. 
 (1) 166 (2) 196 (3) 216 (4) None of these

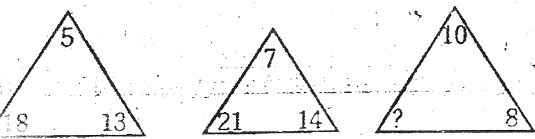
5. 
 (1) 531 (2) 451 (3) 431 (4) 521

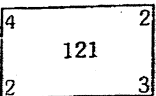
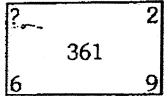
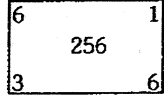
6. 
 (1) 1000 (2) 900 (3) 980 (4) None of these

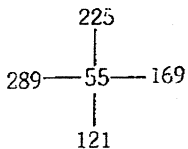
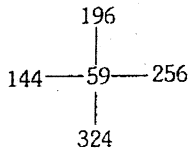
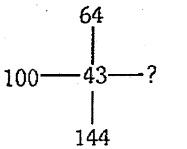
7. 
 (1) E (2) G (3) J (4) K

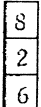
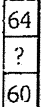
8. 
 (1) 23 (2) 26 (3) 27 (4) 20

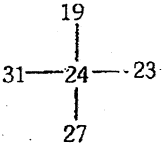
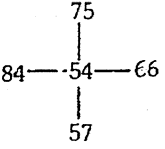
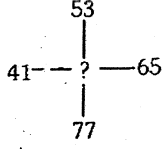
9. 
 (1) 14 (2) 17 (3) 19 (4) None of these

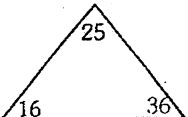
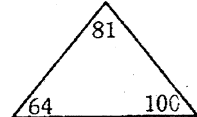
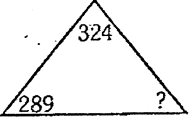
10. 
 (1) 16 (2) 17 (3) 18 (4) 19

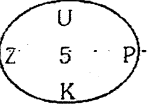
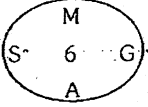
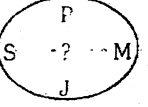
11.   
- (1) 2 (2) 3 (3) 5 (4) None of these

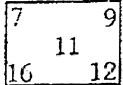
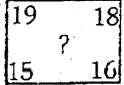
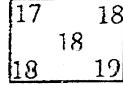
12.   
- (1) 196 (2) 256 (3) 270 (4) None of these

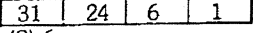
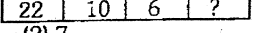
13.   
- (1) 4 (2) 8 (3) 7 (4) 3

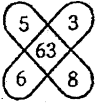
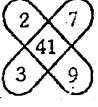
14.   
- (1) 71 (2) 76 (3) 72 (4) 74

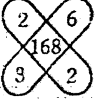
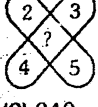
15.   
- (1) 613 (2) 531 (3) 421 (4) 361

16.   
- (1) 4 (2) 3 (3) 2 (4) None of these

17.   
- (1) 16 (2) 13 (3) 17 (4) 15

18.   
- (1) 5 (2) 6 (3) 7 (4) 8

19.   
- (1) 26 (2) 82 (3) 83 (4) 86

20.   
- (1) 84 (2) 195 (3) 240 (4) None of these

EXERCISE

ANSWER KEY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
4	1	1	2	3	1	1	4	4	3	1	1	1	3	4	2	3	2	2	2