

Puzzles

Given is the set of nine numbers that relate to each other in certain way. Determine the missing number in the second set. Assume the second set also works in The same way as the first set.

4	3	4		12	21	28
5	1	7		21	12	34
4	4	9		17	14	?

- a) 30 b) 40 c) 50 d) 60

P-1

Find the missing term in the third figure. Assume the third figure works in the same way as the other two.

5			8	1		8	1	3
4	76	3	2	156	9	4	?	4
	7		2	4		5	3	2

- a) 130 b) 236 c) 240 d) 198

P-2

What number should replace the X ?

17	23	19	21	31
40	50	30	12	
20	X	9		

- a) 15 b) 12 c) 18 d) 21

P-3

What number should replace the question mark?

9	8	7	7263127	5	4	3	201531
6	5	4	302449	2	9	8	181625
3	2	9	62731	7	6	5	423571
8	7	6	564897	4	3	2	?

- a) 22858 b) 12817 c) 23598 d) 12446

P-4

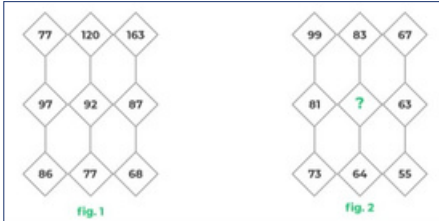
What number should replace the question mark?

23	23	16
29	29	13
31	31	?

- a) 25 b) 10 c) 16 d) 19

P-5

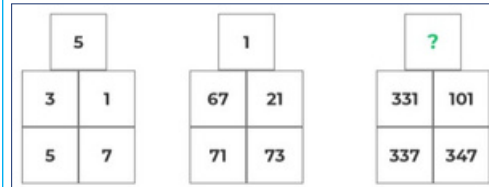
What number should replace the question mark?



- a) 74 b) 78 c) 80 d) 72

P-6

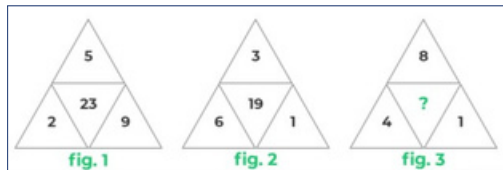
What number should replace the question mark?



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

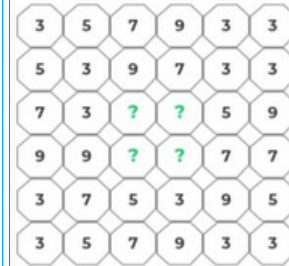
P-7

What number should replace the question mark?



- a) 26 b) 27 c) 28 d) 29

P-8



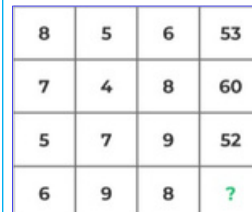
- a) 3 5
 3 3
b) 3 3
 3 3
c) 5 3
 5 5
d) 5 5
 5 5

P-9



Solution:
It's a repetition of the number 35793 in snake form i.e., Starting from top left towards the bottom and then going from bottom to top in the second row and so on.
Hence our answer will be,
3 5
3 3

What number should replace the question mark?



- a) 55 b) 45
c) 47 d) 57

P-10

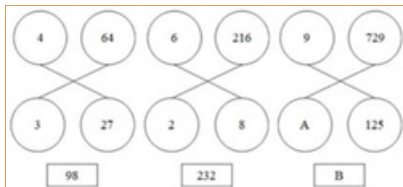
What number should replace the question mark?

8	5	6	53
7	4	8	60
5	7	9	52
6	9	8	?

Solution:
 $(8 \times 6) + 5 = 53$
 $(7 \times 8) + 4 = 60$
 $(5 \times 9) + 7 = 52$
 $(6 \times 8) + 9 = 57$

P-10

Find the values of A & B?



a) A = 5 b) A = 3
c) B = 868 d) B = 738

P-11

Given is the set of nine numbers that relate to each other in certain way. Determine the missing number in the second set. Assume the second set also works in the same way as the first set.

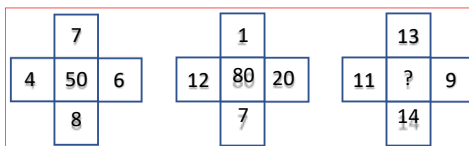
4	2	6		7	5	?
5	2	8		8	8	8
6	1	11		9	10	8

a) 7
c) 9

b) 3
d) 5

P-12

Find the missing term in the third figure. Assume the third figure works in the same way as the other two.

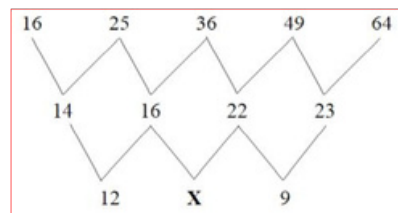


a) 110
c) 90

b) 94
d) 98

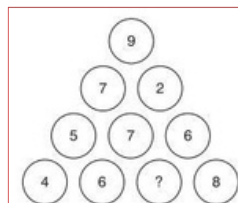
P-13

The value of X in the diagram below is __



P-14

What number should replace the question mark?



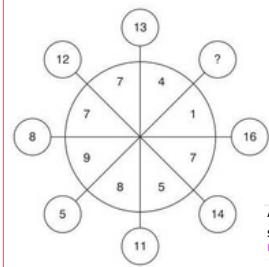
Ans: 0.

Sol.

Looking at lines of numbers from the top : $9 \times 8 = 72$; $72 \times 8 = 576$; $576 \times 8 = 4608$;

P-15

What number should replace the question mark?



Ans: 17.

Sol.

It is the sum of the two digits (9 + 8) in the quadrant opposite.

P-16

What number should replace the question mark?

			14	
	22			
			34	
41				
		53		?

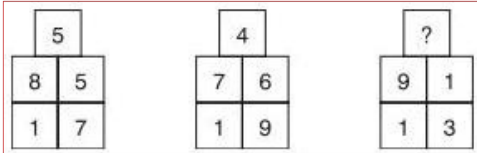
Ans: 55.

Sol.

Each number indicates its position in the grid. 55 indicates row 5 columns 5.

P-17

What number should replace the question mark?



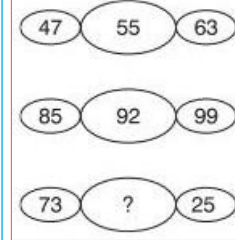
Ans: 7.

Sol.

$91 \div 13 = 7$.

P-18

What number should replace the question mark?



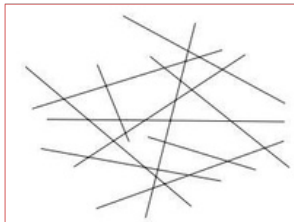
Ans: 49.

Sol.

$(73 + 25) \div 2 = 49$.

P-19

How many lines appear below?



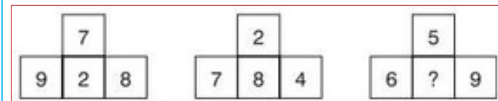
Ans: 11.

Sol.

11

P-20

What number should replace the question mark?



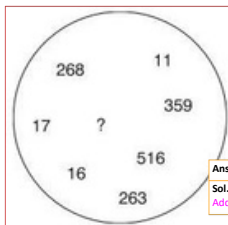
Ans: 4.

Sol.

$6 \times 9 = 54$ (reading down the middle two blocks).

P-21

What number should replace the question mark?



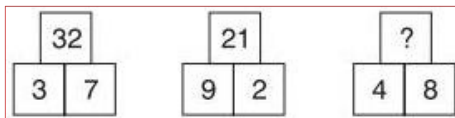
Ans: 12.

Sol.

Add the digits of each three figure number to obtain the two digit numbers.

P-22

What number should replace the question mark?



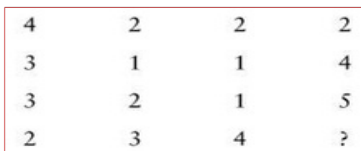
Ans: 18.

Sol.

Multiply the bottom numbers to obtain the numbers at the top, albeit they are at the top of a different pyramid.

P-23

What number should replace the question mark?



4

$2 + 3 = 5$

$2 + 1 + 3 = 6$

$2 + 1 + 2 + 2 = 7$

$4 + 1 + 3 = 8$

$5 + 4 = 9$

10

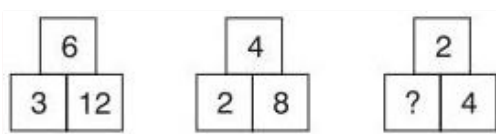
Ans: 10.

Sol.

Each diagonal line of numbers, starting with the top left hand corner number, increases by 1 each time, i.e.:

P-24

What number should replace the question mark?



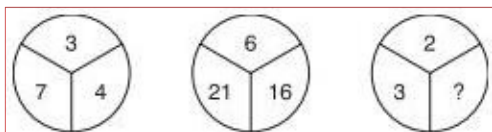
Ans: 1.

Sol.

Multiply the bottom two numbers then take the square root, i.e. $3 \times 4 = 12$ and $\sqrt{12} = 2$.

P-25

What number should replace the question mark?



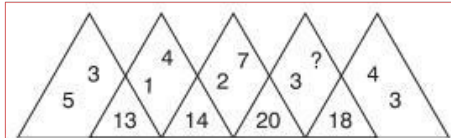
Ans: 4.

Sol.

Looking across at the three circles, the number in the middle is the product of the two numbers in the same segment in the other two circles. Thus, $3 \times 2 = 6$, $7 \times 3 = 21$ and $4 \times 4 = 16$.

P-26

What number should replace the question mark?



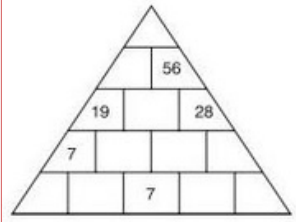
Ans: 8.

Sol.

Each number in the segment at the bottom is the sum of the four numbers in the sections either side. Thus $8 + 3 + 4 + 3 = 18$.

P-27

Each number in the pyramid is the sum of the two numbers immediately below it. Fill in the pyramid with the missing numbers?



Ans: 18, 36, 15.

Sol.
Top left a third of bottom right, bottom right is three less than top right and top right is half of bottom left.

P-28

What goes into the empty brackets?

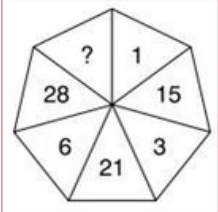
2 (38) 3
4 (1524) 5
6 (3548) 7
8 () 9

Ans: 6380.

Sol.
The numbers inside the brackets are the squares of the numbers outside the brackets with 1 deducted. Alternatively, multiply 2, 4, 6, 8 and 10 respectively and put the number at the end of the figure in the brackets, and multiply 3, 5, 7 and 9 by 1, 3, 5 and 7 respectively and put these numbers first.

P-30

What number should replace the question mark?

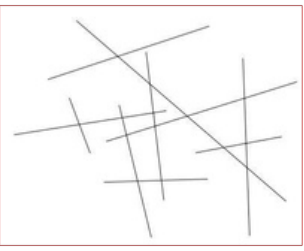


Ans: 10.

Sol.
Start at 1 and working clockwise, jump one segment adding 2, 3, 4, 5, 6, 7.

P-31

How many lines appear below?

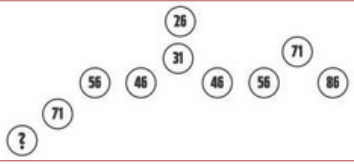


Ans: 10.

Sol.
10

P-32

What number should replace the question mark?



Ans: 86.

Sol.
Add five straightdown;
Add ten sideways;
Add fifteen diagonally.

P-33

What goes into the empty square?

0	7	2	4	12	6	3
	7	9	6		18	9

Ans: 16.

Sol.
Each number in the bottom rows is the sum of the number above it and the previous number.

P-34

What number should replace the question mark?

56	3	49	27	18
74	62	19	8	35
65	92	?	34	81

Ans: 7.

Sol.
The numbers in each line contain the digits 1 – 9 once each only.

P-35

What number should replace the question mark?

6	8	10	5
9	2	8	4
11	3	7	8
5	8	?	2

Ans: 12.

Sol.
Looking across and down, in each line of four numbers the sum of the first two numbers is one less than the sum of the second two numbers.

P-36

What number should replace the question mark?

51 4 28 3
71 2 81 5
90 1 24 6

Ans: 11.

Sol.
 $\{(6 \times 11) + 24 = 90\}$

P-37

Which of the following is the missing section?

7	4	11	15
2	?	?	8
9	?	16	23
11	?	21	31

Ans: A.

Sol.
Looking across and down each number is the sum of the previous two numbers.

3 5	4 6	3 5	4 6
7	8	8	7
10	12	12	10
A	B	C	D

P-38

What number should replace the question mark?

481	846	365
655	839	184
297	?	492

Ans: 789.

Sol.
 $29 + 49 = 78$ and
 $7 + 2 = 9$

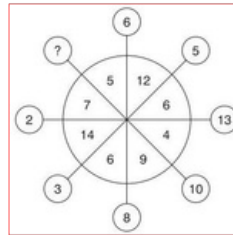
P-39

What is X?



P-40

What number should replace the question mark?



Ans: 11.

Sol.
Each adjacent group of three numbers total 23 i.e.
 $11 + 5 + 7$;
 $6 + 12 + 5$

P-41

What number should replace the question mark?

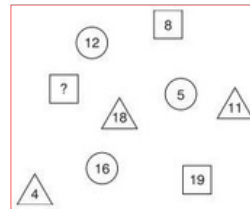
7	4	6	8	4	7	8	3	7
2	8	9	2	9	9	1	9	8
3	1	7	4	1	8	4	?	8

Ans: 0.

Sol.
From the first array to the second array the four corner and the middle numbers increase by 1.
From the second array to the third array the remaining numbers decrease by 1.

P-42

What number should replace the question mark?

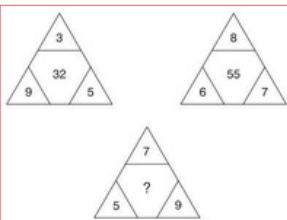


Ans: 6

Sol.
So that the numbers in the triangles squares and circles add upto 33.

P-43

What number should replace the question mark?

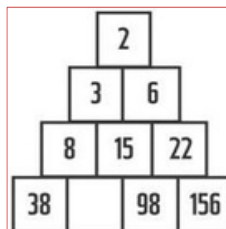


Ans: 44.

Sol.
 $(7 \times 5) + 9 = 44$.

P-44

What number should go into the blank space?



Ans: 59.

Sol.
Proceeding from top to bottom along the rows from left to right, add the two previous numbers and add 1, then add the two previous numbers and subtract 1, and so forth, adding 1 and subtracting 1 alternately. Thus the two numbers previous to the blank square are 22 and 38. These are added together, giving 60, and 1 subtracted from the total.

P-45

What number should replace the question mark?

5	8	4	11
12	7	2	
9	5		
6	10	5	
8	6		
7	4	8	?
9	6	6	
10	4		
7			

Ans: 9.

Sol.

Looking across, lines containing 1 number total 7, lines of 2 numbers total 14, lines of 3 numbers total 21 and lines of 4 numbers total 28.

P-46

What number should replace the question mark?

7	8	2	6
3	8	2	5
1	7	6	2
8	4	5	4

8	7	1	5
4	7	1	6
2	8	5	1
7	3	6	?

Ans: 3

Sol.

looking from the first array to the second array, all odd numbers increase by 1 and even numbers decrease by 1.

P-47

What are A, B, C, and D?

		4		
	7		3	
	8	6		d
5	4		c	6
a	7	8	6	5
28	20	15	b	24
20				20

Ans: A is 4; B is 20; C is 5; D is 2.

Sol.

Add the numbers from top to bottom diagonally to the left of the bottom line for the first three positions on the bottom line, and to the right for the next three positions.

P-48

What goes into the empty brackets?

1	2	(	2	8	4	6)	3	4
4	5	(	1	2	2	1	1	5
7	8	(	2	8	4	0	3	2
11	12	(

Ans: 55706065

Sol.

In the first line multiply the digits outside the brackets by 2 in this order: extreme left, extreme right, second left and first right. In the second line multiply by 3 and in the third line by A, following the same procedure. Therefore in the fourth line multiply by 5 and follow the same procedure.

P-49

What number should replace the question mark?

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

Ans: 2.

Sol.

So that each square block of four numbers totals 15.

P-50

What number should replace the question mark?

4		7	
	4		
4		8	

7		6	
	40		
9		2	

6		3	
	?		
9		4	

Ans: 3

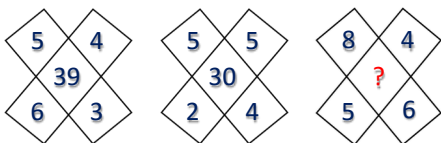
Sol.

(3 x 9) - (6 x 4) = 3.

P-51

Infosys Drive Infy Puzzles 1

What number should replace the question mark?



- a) 68 b) 67 c) 45 d) 76

Consider following rules while substituting numbers in the given grid.

1. The numbers substituted in each column must be unique and should add up to the number given in the topmost cell of the corresponding column.
2. The numbers substituted in each row must be unique and should add up to the number given in the first cell of the corresponding row.
3. The numbers to be used are 1, 3, 5, 7 and 9 only.

Determine the number that will present in place of ?

	17	21	4	
18				?
19				
14				

- a) 3 b) 1 c) 5 d) 7

What number should replace the question mark?

2	6	32
4	3	31
5	3	?

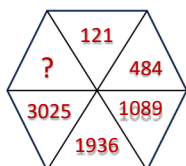
- a) 45 b) 66 c) 38 d) 22

What number should replace the question mark?

9	11	8	10
90	132	72	?

- a) 56 b) 100 c) 110 d) 99

What number should replace the question mark?



- a) 5963 b) 3159 c) 4356 d) 5465

2	6	32
4	3	31
5	3	?