

General Science and Ability

Find the missing number in series:

Q#1: 14, 27, 52, 101, 198,

Sol:
 $14 \times 2 = 28 - 1 = 27$
 $27 \times 2 = 54 - 2 = 52$
 $52 \times 2 = 104 - 3 = 101$
 $101 \times 2 = 202 - 4 = 198$
 $198 \times 2 = 396 - 5 = 391$
391 Ans.

Q#2: 1, 8, 4, 27, 9, 64, 16

Sol:
1, 8, 4, 27, 9
↓ ↓ ↓ ↓ ↓ ↑ ↑
 1^2 2^3 2^2 3^3 3^2 4^3 4^2
64, 16 Ans.

Q#3: 3, 6, 8, 16, 18, 36

Sol:
 $\underbrace{3 \times 2 = 6}$ $\underbrace{6 + 2 = 8}$ $\underbrace{8 \times 2 = 16}$ $\underbrace{16 + 2 = 18}$
 $18 \times 2 = 36$ Ans.
 $36 + 2 = 38$

Q#4 2, 8, 612, 134217728
↓ ↓ ↓ ↑
 2^1 2^3 2^9 2^{27}

1, 3, 9, 27, 81
x3 x3 x3 x3

$\Rightarrow 134217728 = 2^{27}$ Ans.

CSS-2022

Q#1: 4, 16, 36, 64, ?, 144.

Sol:
4, 16, 36, 64, 100, 144
↓ ↓ ↓ ↓ ↑ ↓
 2^2 4^2 6^2 8^2 10^2 12^2

100 Ans.

Q # 2: 30, 29, 27, ?, 20, 15.

Sol:

30, 29, 27, 24, 20, 15, ...
-1 -2 -3 -4 -5

24 Ans.

Q # 3: 1, 7, 15, 25, ?, 51

Sol:

6 8 10 12 14

1, 7, 15, 25, 37, 51

37 Ans.

Q # 04: 0, 2, 6, 12, 20, 30, ?

2 4 6 8 10 12

Sol:

0, 2, 6, 12, 20, 30, 42, ...

42 Ans.

Q # 05: 4, 8, 24, 72, 36, 108, ?, 162

$\frac{48}{24} = 0.5$ $\frac{72}{24} = 3$ 0.5 3 $\times 0.5$ 3

4, 8, 24, 72, 36, 108, 54, 162

54 Ans.

Kinza