

1 Solve the number puzzle.

2	6	18
4	20	100
?	21	147

Row 1

$$2 \times 3 = 6$$

$$6 \times 3 = 18$$

Row 2

$$4 \times 5 = 20$$

$$20 \times 5 = 100$$

Row 3

$$? \times 7 = 21$$

$$\frac{21}{7} = 3$$

Find the Missing Term.

* $2+7 = 27$

$$4+4 = 24$$

$$5+9 = 42$$

$$6+0 = ??$$

$$2+7 = 9 \times 3 = 27$$

$$4+4 = 8 \times 3 = 24$$

$$5+9 = 14 \times 3 = 42$$

$$6+0 = 6 \times 3 = 18$$

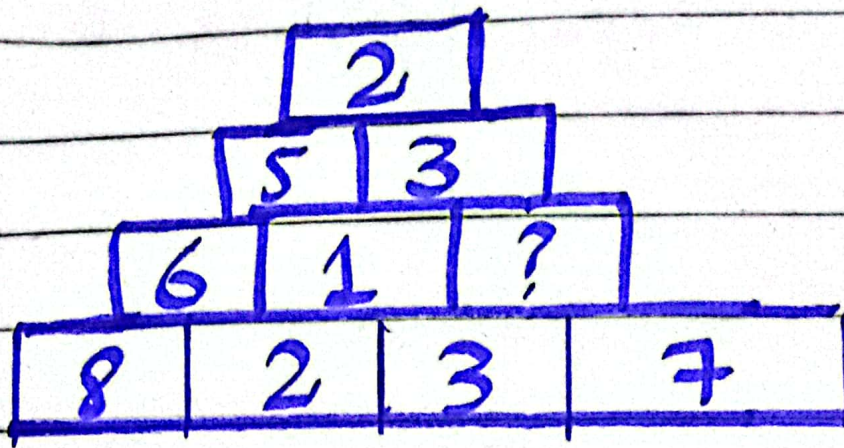
$$2+7 = 27$$

$$4+4 = 24$$

$$5+9 = 42$$

$$6+0 = 18$$

2.



$$2 + 3 = 5$$

$$5 + 1 = 6$$

$$6 + 2 = 8$$

$$3 + 1 = 4$$

$$4 + 3 = 7$$

Missing number = 4 Ans

3. Find the missing terms:-

a- 121, 11, 81, 9, 49, 7

$$121 = 11^2 = 11$$

$$81 = 9^2$$

$$= 9$$

$$49 = 7^2$$

b) 100, 50, 25, 12.5, 6.25

$$100 - 50 = 50$$

$$50 - 25 = 25$$

$$25 - 12.5 = 12.5$$

$$12.5 - 6.25 = 6.25$$

c) 4, 9, 64, 125, 1296, 2401

$$2^2 = 4$$

$$3^2 = 9$$

$$4^3 = 64$$

$$5^3 = 125$$

$$6^4 = 1296$$

$$7^4 = 2401$$

d) 2, 5, 12, 24, 48, 96

$$2 \times 2 = 4, 4 \times 2 = 8, 8 \times 2 = 16, 16 \times 2 = 32$$

$$4 + 1 = 5, 8 + 4 = 12, 16 + 8 = 24, 32 + 16 = 48$$

$$32 \times 2 = 64$$

$$64 + 32 = 96$$

e) 44, 22, 66, 33, 132, 66

$$22 \times 2 = 44$$

$$33 \times 2 = 66$$

$$66 \times 2 = 132$$

4) How many prime numbers are b/w each other.

a) $\sqrt{3}$ and $\sqrt{120}$

$$\sqrt{3} = 1.75$$

$$\sqrt{120} = 10.95$$

prime numbers b/w 2 and 10
2, 3, 5, 7 = 4 prime numbers.

b) $\sqrt[3]{10}$ and $\sqrt[3]{410}$

$$\sqrt[3]{10} = 2.15$$

$$\sqrt[3]{410} = 7.44$$

prime numbers b/w 3 and 7
3, 5, 7 = 3 prime numbers.

c) $\sqrt[3]{10}$ and $\sqrt[3]{999}$

$$\sqrt[3]{10} = 2.15$$

$$\sqrt[3]{999} = 9.97$$

prime between 3 and 9 = 3, 5, 7
3 prime numbers.

d) $\sqrt[3]{28}$ and $\sqrt{120}$

$$\sqrt[3]{28} \approx 3.04$$

$$\sqrt{120} \approx 10.95$$

prime numbers between 4 and 10

5, 7,

e) $\sqrt[3]{8}$ and $\sqrt{400}$

$$\sqrt[3]{8} = 2$$

$$\sqrt{400} = 20$$

prime numbers b/w 3 and 19

3, 5, 7, 11, 13, 17, 19