

Q1

(a) Find the missing terms:

i. 2, 6, 18, 54,

~~2 x 6~~ By Multiplying with 3

Ans

$$2 \times 3 = 6$$

$$6 \times 3 = 18$$

$$18 \times 3 = 54$$

$$54 \times 3 = 162 \quad \text{Ans}$$

ii- 3125, 256, 27, 4, 1.

By taking ~~ones~~

$$5^5 = 3125$$

$$4^4 = 256$$

$$3^3 = 27$$

$$2^2 = 4$$

$$1^1 = 1 \quad \text{Ans}$$

$$\sqrt{x} = \sqrt{64}$$

$$x = 8$$

By putting the value in eq(i)

$$x : 5x$$

$$8 : 5(8)$$

$$8 : 40$$

Difference of Squares
of two numbers

$$= (40)^2 - (8)^2$$

$$= 1600 - 64 = 1536 \text{ Ans}$$

4. Mean of 10, 30, Y, and 50 is 50
 What is value of Y?

Ans. 10, 30, Y, 50
 $10 + 30 + 50 + Y$

Mean = 50
 value of Y = ?

$$50 = \frac{10 + 30 + 50 + Y}{4}$$

$$50 = \frac{90 + Y}{4}$$

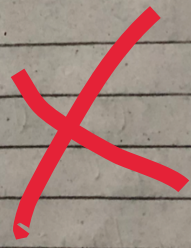
$$25 = \frac{45 + Y}{2}$$

$$25 = 45 + Y$$

$$525 = Y$$

$$\frac{5}{9} = Y$$

$$\frac{5}{9} = Y$$



10, 30
 90 + Y
 90 + Y
 50
 $50 = \frac{90 + Y}{4}$
 $10 = \frac{90 + Y}{4}$
 $40 = 90 + Y$
 $Y = 40 - 90$
 $Y = -50$
 10, 30 + 8 + 5
 $5 \overline{) 108}$
 21
 108
 108
 0
 90
 50 +
 $90 + 30$
 $5 \overline{) 120}$
 24
 120
 120
 0
 90
 $50 = \frac{18}{4}$
 $50 = 4.5$
 50
 18