

Home Assignment for class VIII

Sub : Mathematics

Square and square root :

1. Find the square of the following :

Eg : 7

solve : 7^2

Multiplying two times the number with base number i.e. 7

$$7 \times 7 = 49 \text{ Ans}$$

a) 9 b) 23 c) 39 d) 56 e) 78

2. Find the square root by the prime factorisation method :

Eg : 441

solve : Resolving from prime factors

$$441 = 49 \times 9 = 7 \times 7 \times 3 \times 3 = 7 \times 3 = 21 \text{ Ans}$$

a) 625 b) 900 c) 841 d) 1089 e) 5625

3. Factorise :

Eg : $(3 - a)(4 - b)$

solve : $3(4 - b) - a(4 - b)$

$$(3 \times 4) + (3 \times -b) - (a \times 4) - (a \times -b)$$

$$(12) + (-3b) - (4a) - (-ab)$$

$$12 - 3b - 4a + ab \text{ Ans}$$

a) $(7x - 10)(z - 8)$

b) $(a - 8)(5a + 7)$

c) $(4c + 13)(5d - 3)$

d) $(6x + 8)(x + 9)$

e) $(a - 7c)(9b + 9d)$

4. Factorise :

Eg : $a^2 - 9b^2$

solve : $(a)^2 - (3b)^2$

we know that, $a^2 - b^2 = (a + b)(a - b)$

$(a + 3b)(a - 3b)$ **Ans**

a) $x^2 - 64$

b) $100m^2 - n^2$

c) $25 - 81a^2$

d) $m^4 - n^4$

e) $8x^2 - 32y^2$