



#### Encircle the correct option.

01. Solve the equation  $4x^2 - 16 = 0$

- A) -2 or 2                      B) 2 or -4                      C) -1 or 1                      D) 0 or 1

02. If  $a^2 - 121 = 0$ , then value of a is

- A) 11                              B) 12                              C)  $\pm 11$                       D) 13

03) If  $(x - 3)(x + 2) = 0$ , then the value of x is

- A) 3, -2                      B) -3, -2                      C) -3, 2                      D) 3, 2

04) What are the values of x in the solution of  $x^2 - 49 = 0$

- A)  $x = 7$  or  $x = -7$                       B)  $x = -7$  or  $x = -7$                       C)  $x = 7$  or  $x = 7$

#### Questions

Q no 01) Solve the equations

I.  $x^2 - 3x + 18 = 0$

II.  $a^2 - 9 = 0$

III.  $3x^2 - 11x + 8 = 0$

IV.  $4x^2 - 9 = 0$

V.  $\frac{4}{x+3} = \frac{x-1}{3}$

Q no. 02) The sum of a positive integer x and its square is 56.

I. Write an equation in x to present this information.

II. Solve the equation to find the integer x.

Q no. 03) Find two consecutive positive even numbers such that the square of their sum is 100.

Q no. 04) The length and breadth of a rectangle are  $(x + 2)$  cm and x cm respectively. If the area of the rectangle is  $120 \text{ cm}^2$ , find

I. The value of x

II. The perimeter of this rectangle.

Q no. 05) The sum of the squares of two consecutive numbers is 145. Calculate the numbers.

Q no. 06) The sum of the square of two consecutive odd numbers is 290. Find the numbers.