

Q.1 Solve the following equations :

a.  $3x - 2 = 10$   
 $5x = 27$

b.  $8x + 5 = 29$

c.  $7 - 5x = -18$  d.  $8x -$

e.  $5(2x - 3) - 3(5x - 7) = 5$   
 $\frac{1}{5} = 2 - x$

f.  $4a = -18$

g.  $3x +$

h.  $\frac{3x-1}{5} - \frac{x}{7} = 3$   
 $\frac{y-2}{4} = 1$

I.  $\frac{2m+5}{3} = 3m - 10$

j.  $\frac{y-1}{3} -$

Q.2 Twice of a number when increased by 8 gives 69. Find the number.

Q.3 Thrice a number when decreased by 5 gives 44. Find the number.

Q.4 A number when added to its half gives 72. Find the number.

Q.5 The length of a rectangular field is twice its breadth. If the perimeter of the field is 150m , find its length and breadth.

Q.6 Two complementary angles differ by  $8^\circ$  . Find the angles.

Q.7 Two supplementary angles differ by  $44^\circ$  . Find the angles.

Q.8 A number is as much greater than 32 as it is less than 78. Find the number.

Q.9 In a class of 49 students, the number of girls is  $\frac{1}{6}$  times the number of boys. Find the number of boys and girls in the class.

Q.10 Rohan is 19 years younger than his cousin. After 5 years, their ages will be in the ratio 2: 3. Find their present ages.

