

## Maths

### Class – VII

#### EXERCISE 4.2



1. Give first the step you will use to separate the variable and then solve the equation:

(a)  $x - 1 = 0$       (b)  $x + 1 = 0$       (c)  $x - 1 = 5$       (d)  $x + 6 = 2$   
 (e)  $y - 4 = -7$       (f)  $y - 4 = 4$       (g)  $y + 4 = 4$       (h)  $y + 4 = -4$

2. Give first the step you will use to separate the variable and then solve the equation:

(a)  $3l = 42$       (b)  $\frac{b}{2} = 6$       (c)  $\frac{p}{7} = 4$       (d)  $4x = 25$   
 (e)  $8y = 36$       (f)  $\frac{z}{3} = \frac{5}{4}$       (g)  $\frac{a}{5} = \frac{7}{15}$       (h)  $20t = -10$

3. Give the steps you will use to separate the variable and then solve the equation:

(a)  $3n - 2 = 46$       (b)  $5m + 7 = 17$       (c)  $\frac{20p}{3} = 40$       (d)  $\frac{3p}{10} = 6$

4. Solve the following equations:

(a)  $10p = 100$       (b)  $10p + 10 = 100$       (c)  $\frac{p}{4} = 5$       (d)  $\frac{p}{3} = 5$

(e)  $\frac{3p}{4} = 6$       (f)  $3s = -9$       (g)  $3s + 12 = 0$       (h)  $3s = 0$

(i)  $2q = 6$       (j)  $2q - 6 = 0$       (k)  $2q + 6 = 0$       (l)  $2q + 6 = 12$

#### EXERCISE 4.3

1. Solve the following equations:

(a)  $2y + \frac{5}{2} = \frac{37}{2}$       (b)  $5t + 28 = 10$       (c)  $\frac{a}{5} + 3 = 2$       (d)  $\frac{q}{4} + 7 = 5$

(e)  $\frac{5}{2}x = 10$       (f)  $\frac{5}{2}x = \frac{25}{4}$       (g)  $7m + \frac{19}{2} = 13$       (h)  $6z + 10 = -2$

(i)  $\frac{3l}{2} = \frac{2}{3}$       (j)  $\frac{2b}{3} - 5 = 3$

2. Solve the following equations:

(a)  $2(x + 4) = 12$       (b)  $3(n - 5) = 21$       (c)  $3(n - 5) = -21$

(d)  $-4(2 + x) = 8$       (e)  $4(2 - x) = 8$

3. Solve the following equations:

(a)  $4 = 5(p - 2)$       (b)  $-4 = 5(p - 2)$       (c)  $16 = 4 + 3(t + 2)$

(d)  $4 + 5(p - 1) = 34$       (e)  $0 = 16 + 4(m - 6)$

4. (a) Construct 3 equations starting with  $x = 2$

(b) Construct 3 equations starting with  $x = -2$



