

## Workout

Question 1: Solve the following equations

- (a)  $\frac{x}{2} = 6$       (b)  $\frac{w}{3} = 1$       (c)  $\frac{a}{4} = 10$       (d)  $\frac{w}{8} = 7$
- (e)  $\frac{x}{10} = 23$       (f)  $\frac{c}{9} = 5$       (g)  $\frac{t}{14} = 15$       (h)  $\frac{y}{3} = 1.5$
- (i)  $\frac{x}{4} = 1.6$       (j)  $\frac{x}{2.5} = 8$       (k)  $\frac{x}{4} = -3$       (l)  $\frac{x}{6} = -12$

Question 2: Solve the following equations

- (a)  $\frac{x}{4} + 1 = 9$       (b)  $\frac{x}{2} - 5 = 9$       (c)  $\frac{w}{5} + 2 = 3$       (d)  $\frac{x}{8} - 7 = 2$
- (e)  $\frac{m}{3} - 4 = 0$       (f)  $\frac{x}{6} + 7 = 2$       (g)  $\frac{k}{4} + 5 = -6$       (h)  $\frac{x}{6} - 2 = -8$

Question 3: Solve the following equations

- (a)  $\frac{x+1}{2} = 3$       (b)  $\frac{w-4}{3} = 2$       (c)  $\frac{x-2}{7} = 6$       (d)  $\frac{w+9}{4} = 8$
- (e)  $\frac{w-25}{3} = -7$       (f)  $\frac{x+2}{4} = -1$       (g)  $\frac{w+20}{8} = -2$       (h)  $\frac{x-9}{4} = -2$

Question 4: Solve the following equations

- (a)  $\frac{2a}{3} = 6$       (b)  $\frac{2x}{5} = 4$       (c)  $\frac{3x}{10} = 6$       (d)  $\frac{7x}{2} = 28$
- (e)  $\frac{3x}{4} = 12$       (f)  $\frac{2x}{9} = -8$       (g)  $\frac{3x}{2} = 2$       (h)  $\frac{5x}{14} = 3$

Question 5: Solve the following equations

(a)  $\frac{3x+5}{2} = 7$    (b)  $\frac{5x-12}{3} = 11$    (c)  $\frac{4x+2}{6} = 5$    (d)  $\frac{10x+3}{4} = 4$

(e)  $\frac{5x-8}{2} = 10$    (f)  $\frac{8x+4}{5} = 12.8$    (g)  $\frac{2x+13}{3} = 1$    (h)  $\frac{3x-4}{7} = -4$

(i)  $\frac{7x-12}{3} = -25$    (j)  $\frac{29-2x}{3} = 5$    (k)  $\frac{100-5x}{3} = 30$    (l)  $\frac{24-3x}{12} = 5$

Question 6: Solve the equations below

(a)  $\frac{2x+1}{3} = x-2$    (b)  $\frac{5x-3}{2} = 2x+4$    (c)  $\frac{x+17}{5} = x+1$

(d)  $4x-9 = \frac{2x+3}{3}$    (e)  $\frac{9-x}{2} = x+3$    (f)  $\frac{15-2x}{3} = 2x-3$

Question 7: Solve the equations below

(a)  $\frac{2x-1}{x+3} = 9$    (b)  $\frac{x+11}{2x-5} = 2$    (c)  $\frac{x+1}{x+4} = 3$

(d)  $\frac{5x-24}{x-4} = 3$    (e)  $\frac{x+7}{x-3} = -4$    (f)  $\frac{3x+8}{9-x} = -2$

Question 8: Solve the equations below

(a)  $\frac{x+3}{2} + \frac{x+1}{4} = 10$    (b)  $\frac{x+3}{10} + \frac{x-2}{5} = 2$    (c)  $\frac{2x-1}{9} + \frac{x+2}{3} = 0$

(d)  $\frac{x-1}{4} - \frac{x+3}{2} = -4$    (e)  $\frac{4x+9}{15} - \frac{x-3}{5} = 1$    (f)  $\frac{x+4}{3} + \frac{x+1}{2} = 1$

(g)  $\frac{3x+5}{4} - \frac{x-7}{5} = 1$    (h)  $\frac{2x-5}{7} - \frac{2x-1}{2} = 3$    (i)  $\frac{x}{2} + \frac{4x+1}{10} = -8$

(j)  $\frac{x+1}{2} + \frac{2x-1}{4} + \frac{x+2}{3} = 1$