

**CLASS NOTES-ANSWERS****EXERCISE 2.1**

1. Solve the following equations.

(a) $x - 2 = 7$

(b) $y + 3 = 10$

(c) $6 = z + 2$

(d) $\frac{3}{7} + x = \frac{17}{7}$

(e) $6x = 12$

(f) $\frac{t}{5} = 10$

(g) $\frac{2x}{3} = 18$

(h) $1.6 = \frac{y}{1.5}$

(i) $7x - 9 = 16$

(j) $14y - 8 = 13$

(k) $17 + 6p = 9$

(l) $\frac{x}{3} + 1 = \frac{7}{15}$

Answer:

(a) $x - 2 = 7$

$x = 7 + 2$

$x = 9$

(b) $y + 3 = 10$

$y = 10 - 3$

$y = 7$

(c) $6 = z + 2$

$z = 6 - 2$

$z = 4$

(d) $\frac{3}{7} + x = \frac{17}{7}$

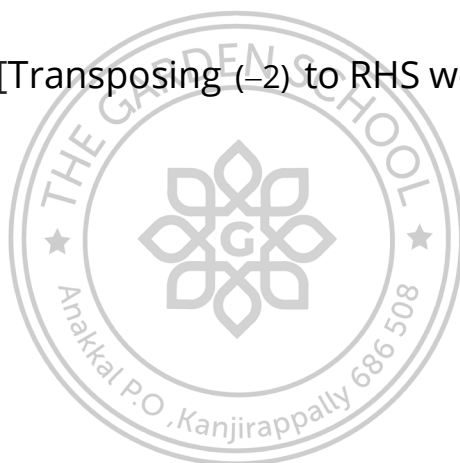
$x = \frac{17}{7} - \frac{3}{7}$

$x = \frac{17-3}{7}$

$x = \frac{14}{7}$

$x = 2$

[Transposing (-2) to RHS we get]





(e) $6x = 12$

$$x = \frac{12}{6}$$

$$x = 2$$

(f) $\frac{t}{5} = 10$

$$t = 10 \times 5$$

$$t = 50$$

(g) $\frac{2x}{3} = 18$

$$x = \frac{18 \times 3}{2}$$

$$x = 9 \times 3$$

$$x = 27$$

(h) $1.6 = \frac{y}{1.5}$

$$y = 1.5 \times 1.6$$

$$y = 2.4$$

(i) $7x - 9 = 16$

$$7x = 16 + 9$$

$$7x = 25$$

$$x = \frac{25}{7}$$

$$x = 3.57$$

(j) $14y - 8 = 13$

$$14y = 13 + 8$$

$$14y = 21$$

$$y = \frac{21}{14}$$





$$y = 1.5$$

$$(k) 17 + 6p = 9$$

$$6p = 9 - 17$$

$$6p = -8$$

$$p = \frac{-8}{6}$$

$$p = \frac{-4}{3}$$

$$(l) \frac{x}{3} + 1 = \frac{7}{15}$$

$$\frac{x}{3} = \frac{7}{15} - 1$$

$$\frac{x}{3} = \frac{7}{15} - \frac{15}{15}$$

$$\frac{x}{3} = \frac{-8}{15}$$

$$x = \frac{-8 \times 3}{15}$$

$$x = \frac{-24}{15}$$

$$x = \frac{-8}{5}$$

