

NAME - JAGADISH PANIGRAHI, CLASS - VI
SSE - A, SCHOOL NO - 4659



EXERCISE - 22(A)

1. (i) $x + 2 = 6$
 $\Rightarrow x = 6 - 2 = 4$

(ii) $x + 6 = 2$
 $\Rightarrow x = 2 - 6 = -4$

(iii) $y + 8 = 5$
 $\Rightarrow y = 5 - 8 = -3$

(iv) $x + 4 = -3$
 $\Rightarrow x = -3 - 4 = -7$

(v) $y + 2 = -8$
 $\Rightarrow y = -8 - 2 = -10$

(vi) $b + 2.5 = 4.2$
 $\Rightarrow b = 4.2 - 2.5 = 1.7$

(vii) $p + 4.6 = 8.5$
 $\Rightarrow p = 8.5 - 4.6 = 3.9$

(viii) $y + 3.2 = -6.5$
 $\Rightarrow y = -6.5 - 3.2 = -9.7$

(ix) $a + 8.9 = -12.6$
 $\Rightarrow a = -12.6 - 8.9 = -21.5$

(x) $x + 2\frac{1}{3} = 5$
 $\Rightarrow x + \frac{7}{3} = 5$
 $\Rightarrow x = 5 - \frac{7}{3} = \frac{8}{3}$
 $= \frac{15 - 7}{3} = \frac{8}{3}$

$$(xi) z + 2 = 4\frac{1}{5}$$

$$\Rightarrow z = 4\frac{1}{5} - 2 = \frac{21}{5} - 2 = \frac{21 - 10}{5} = \frac{11}{5}$$

$$(xii) m + 3\frac{1}{2} = 4\frac{1}{4}$$

$$\Rightarrow m = 4\frac{1}{4} - 3\frac{1}{2} = \frac{17}{4} - \frac{7}{2} = \frac{17 - 14}{4} = \frac{3}{4}$$

$$(xiii) x + 2 = 1\frac{1}{4}$$

$$\Rightarrow x + 2 = \frac{5}{4} \Rightarrow x = \frac{5}{4} - 2 = \frac{5 - 8}{4} = -\frac{3}{4}$$

$$(xiv) y + 5\frac{1}{3} = 9$$

$$\Rightarrow y = 9 - 5\frac{1}{3} = 9 - \frac{16}{3} = \frac{27 - 16}{3} = \frac{11}{3}$$

$$(xv) a + 3\frac{1}{5} = 1\frac{1}{2}$$

$$\Rightarrow a = 1\frac{1}{2} - 3\frac{1}{5} = \frac{3}{2} - \frac{16}{5} = \frac{15 - 32}{10} = -\frac{17}{10}$$

$$2) (i) x - 3 = 2$$

$$\Rightarrow x = 2 + 3 = 5$$

$$(ii) m - 2 = -5$$

$$\Rightarrow m = -5 + 2 = -3$$

$$(iii) b - 5 = 7$$

$$\Rightarrow b = 7 + 5 = 12$$

$$(iv) a - 2.5 = -4$$

$$\Rightarrow a = -4 + 2.5 = -1.5$$

$$(v) y - 3\frac{1}{2} = 6$$

$$\Rightarrow y = 6 + 3\frac{1}{2} = 6 + \frac{7}{2} = \frac{12 + 7}{2} = \frac{19}{2}$$

$$(vi) z - 2\frac{1}{3} = -6$$

$$\Rightarrow z = -6 + 2\frac{1}{3} = -6 + \frac{2}{3} = \frac{-18 + 2}{3} = \frac{-16}{3}$$

$$= -3\frac{2}{3}$$

$$(vii) p - 5.4 = 2.7$$

$$\Rightarrow p = 2.7 + 5.4 = 8.1$$

$$(viii) x - 1.5 = -4.9$$

$$\Rightarrow x = -4.9 + 1.5 = -3.4$$

$$(ix) 2n - 4 = -4\frac{1}{5}$$

$$\Rightarrow 2n = -4\frac{1}{5} + 4 = \frac{-21}{5} + 4 = \frac{-21 + 20}{5} = \frac{-1}{5} = -0.2$$

$$3/c) 3x = 12$$

$$\Rightarrow x = \frac{12}{3} = 4$$

$$(ii) 2y = 9$$

$$\Rightarrow y = \frac{9}{2} = 4\frac{1}{2} = 4.5$$

$$(iii) 5z = 8.5$$

$$\Rightarrow z = \frac{8.5}{5} = 1.7$$

$$(iv) 2.5m = 7.5$$

$$\Rightarrow m = \frac{7.5}{2.5} = 3$$

$$(v) 3.2p = 16$$

$$\Rightarrow p = \frac{16}{3.2} = \frac{16}{\frac{32}{10}} = 16 \times \frac{10}{32} = 5$$

$$(vi) 2a = 4.6$$

$$\Rightarrow a = \frac{4.6}{2} = 2.3$$

$$4 \cdot (i) \frac{x}{2} = 5$$

$$\Rightarrow x = 5 \times 2 = 10$$

$$(ii) \frac{y}{3} = -2$$

$$\Rightarrow y = -2 \times 3 = -6$$

$$(iii) \frac{a}{5} = -15$$

$$\Rightarrow a = -15 \times 5 = -75$$

$$(iv) \frac{z}{4} = 3\frac{1}{4}$$

$$\Rightarrow z = 3\frac{1}{4} \times 4 = \frac{13 \times 4}{4} = 13$$

$$(v) \frac{m}{6} = 2\frac{1}{2}$$

$$\Rightarrow \frac{m}{6} = \frac{5}{2}$$

$$\Rightarrow m = \frac{5}{2} \times 6 = 15$$

$$(vi) \frac{n}{7} = -2.8$$

$$\Rightarrow n = -2.8 \times 7 = -19.6$$

$$5 \cdot (i) -2x = 8$$

$$\Rightarrow x = \frac{-8}{-2} = 4$$

$$(ii) -3.5y = 14$$

$$\Rightarrow y = \frac{14}{-3.5} = -4$$

$$(iii) -3.5y = 14$$

$$(iii) -5z = 4$$

$$\Rightarrow z = \frac{4}{-5} = -\frac{4}{5} = -0.8$$

$$(IV) -5 = a + 3$$

$$\Rightarrow a = -5 - 3 = -8$$

$$(V) 2 = p + 5$$

$$\Rightarrow p = 2 - 5 = -3$$

$$(VI) 4.5 = m - 2.7$$

$$\Rightarrow m = 2.7 + 4.5 = 7.2$$

$$(VII) 3\frac{2}{5} = x - 2\frac{1}{3}$$

$$\Rightarrow x = 3\frac{2}{5} + 2\frac{1}{3} = \frac{17}{5} + \frac{7}{3} =$$

$$\frac{51 + 35}{15} = \frac{86}{15} = 5\frac{11}{15}$$

$$(VIII) 5 = m + 3\frac{4}{7}$$

$$\Rightarrow m = 5 - 3\frac{4}{7} = 5 - \frac{25}{7} = \frac{35 - 25}{7} = \frac{10}{7} = 1\frac{3}{7}$$

$$(IX) -2\frac{1}{5} = y - 4$$

$$\Rightarrow y = 4 - 2\frac{1}{5} = 4 - \frac{11}{5} = \frac{20 - 11}{5} = \frac{9}{5} = 1\frac{4}{5}$$

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