Hw = 28/8/21

5 | 11 | 2
-10
1

Ex - 22A Swamit Nath 6B

1. Solve:

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

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

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

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

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

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

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

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

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

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

(xi) $z+2=\frac{21}{5}$
$\Rightarrow z=\frac{21}{5}-2$
$\Rightarrow z=\frac{21-10}{5}$
$\Rightarrow z=\frac{11}{5}$
$\Rightarrow z=2\frac{1}{5}$

(xii) m
$\Rightarrow$ m
$\Rightarrow$ m
$\Rightarrow$ m
$\Rightarrow$ m

(xiii)

(xiv)
$\Rightarrow$
$\Rightarrow$

(xv)

$3\overline{)4}\,(1$
-3
1

(xii) $m + \frac{7}{2} = \frac{17}{4}$

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

$\Rightarrow m = \frac{17 - 14}{4}$

$\Rightarrow m = \frac{3}{4}$

$\Rightarrow m = 1\frac{1}{3}$

(xiii) $x + 2 = \frac{5}{4}$

$\Rightarrow x = \frac{5}{4} - \frac{2}{1}$

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

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

(xiv) $y + \frac{16}{3} = 4$

$\Rightarrow y = 4 - \frac{16}{3}$

$\Rightarrow y = \frac{12 - 16}{3}$

$\Rightarrow y = \frac{-4}{3}$

(xv) $a + \frac{9}{5} = \frac{3}{2}$ $\Rightarrow a = \frac{-15}{10}$

$\Rightarrow a = \frac{3}{2} - \frac{9}{5}$

$\Rightarrow a = \frac{3 - 18}{10}$

2. Solve:

(i) $x - 3 = 2$

$\Rightarrow x = 2 + 3$

$\Rightarrow x = 5$

(ii) $m - 2 = -5$

$\Rightarrow m = -5 + 2$

$\Rightarrow m = -3$

(iii) $b - 5 = 7$

$\Rightarrow b = 7 + 5$

$\Rightarrow b = 12$

(iv) $a - 2.5 = -4$

$\Rightarrow a = -4 + 2.5$

$\Rightarrow a = -1.5$

(v) $y - \frac{7}{2} = 6$

$\Rightarrow y = 6 + \frac{7}{2}$

$\Rightarrow y = \frac{12+7}{2}$

$\Rightarrow y = \frac{19}{2}$

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

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

$\Rightarrow z = -6 + \frac{7}{2}$

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

(vi) $P - 5.4 = 2.7$

$\Rightarrow P = 2.7 + 5.4$

$\Rightarrow P = 8.1$

(vii) $x - 1.5 = -4.9$

$\Rightarrow x = -4.9 + 1.5$

$\Rightarrow x = -3.4$

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

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

$\Rightarrow n = \frac{-21 + 20}{5}$

$\Rightarrow n = \frac{1}{5} = 0.2$

3. Solve:

(i) $3x = 12$

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

$\Rightarrow x = 4$

(ii) $2y = 9$

$\Rightarrow y = \frac{9}{2}$

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

(iii) $5z = 8.5$

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

$\Rightarrow z = 1.7$

(iv) $2.5m = 7.5$

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

$\Rightarrow m = 3.0$

(v) $y = \frac{7}{2}$ $3.2p = 16$

$\Rightarrow p = \frac{16}{32}$

$\Rightarrow p = 5$

(vi) $2a = 4.6$

$\Rightarrow a = \frac{46}{2}$

$\Rightarrow a = 2.3$

4. Solve:

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

$\Rightarrow x = 5 \times 2$

$\Rightarrow x = 10$

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

$\Rightarrow y = -2 \times 3$

$\Rightarrow y = -6$

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

$\Rightarrow a = -15 \times 5$

$\Rightarrow a = -75$

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

$\Rightarrow \frac{z}{4} = \frac{13}{4}$

$\Rightarrow 4z = 52$

$\Rightarrow z = \frac{52}{4}$

$\Rightarrow z = 13$

(v) $\frac{m}{6} = \frac{5}{2}$

$\Rightarrow m \times 2 = 30$

$\Rightarrow m = \frac{30}{2}$

$\Rightarrow m = 15$

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

$\Rightarrow n = 7x - 28$

$\Rightarrow n = -19.6$

5 Solve:

(i) $-7x = 8$

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

$\Rightarrow x = -4$

(ii) $-3.5y = 0.14$

$\Rightarrow y = \frac{14}{-35} \Rightarrow y = -\frac{14}{3.5} \Rightarrow y = -\frac{140}{35}$

$\Rightarrow y = -4$ ✓ $y = -4$

$\Rightarrow y = \frac{14}{-35}$

$\Rightarrow 35 \mid 140$

(iii) $-5z = 4$

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

$\Rightarrow z = -0.8$

$5 \overline{)4.0}$ (1. 8) — 5, 40, -40, 0

(iv) $-5 = a + 3$

$\Rightarrow a = +3 + 5$

$\Rightarrow a = 8$

$\Rightarrow -3 - 5 = a$

$\Rightarrow -8 = a$

(v) $2 = p + 5$

$\Rightarrow 2 - 5 = p$

$\Rightarrow -3 = p$

(vi) $4.5 = m - 2.7$

$\Rightarrow m = 4.5 + 2.7$

$\Rightarrow m = 7.2$

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

$\Rightarrow \frac{17}{5} = x - \frac{7}{3}$

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

$\Rightarrow x = \frac{35 + 51}{15}$

(vi) $4.5 = m - 2.7$

$\Rightarrow -m = -2.7 - 4.5$

$\Rightarrow m = 7.2$

(vii) $\frac{17}{2} = x - \frac{7}{3}$

$\Rightarrow -x = -\frac{7}{3} - \frac{17}{2}$

$\Rightarrow x = \frac{|14+51|}{6}$

$\Rightarrow x = \frac{65}{6}$

$\Rightarrow x = 10\frac{5}{6}$

$6\overline{)65}$ (10)

$-6\downarrow$

05

(viii) $5 = \frac{m+25}{7}$

$\Rightarrow 7m = m + 25 - 5$

$\Rightarrow m = \frac{35}{7}$

$\Rightarrow m = \frac{60}{7}$

$\Rightarrow m = 8\frac{4}{7}$

$7\overline{)60}$ (8)

-56

4

$7\overline{)60}$ (11)

$-7\downarrow$

10

-7

3

$$
\begin{array}{r|l}
5 & 9 \\
\multicolumn{2}{r}{1} \\
\multicolumn{2}{r}{-5} \\
\hline
\multicolumn{2}{r}{4}
\end{array}
$$