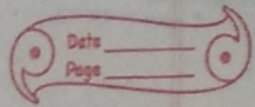


ch-22

Simple (Linear) equation



Ex-22(A)

$$\begin{array}{r} 12.6 \\ + 8.9 \\ \hline 21.5 \end{array} \quad \begin{array}{r} 8.5 \\ - 9.6 \\ \hline 3.9 \end{array}$$

1) Solve:

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

ii) $x+6=2$
 ~~$2-6=-4$~~
ans- $x=4$

iii) $y+8=5$
ans- $5-8=-3$
 $x=-3$

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

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

vi) $y+2=-8$
 $\Rightarrow y=-8-2$
 $\Rightarrow y=-10$

vii) $b+2.5=4.2$
 $\Rightarrow b=4.2-2.5$
 $\Rightarrow b=1.7$

viii) $p+9.6=8.5$
 $\Rightarrow p=8.5-9.6$
 $\Rightarrow p=3.9$

ix) $y+3.2=-6.5$
 $\Rightarrow y=-6.5-3.2$
 $\Rightarrow y=-9.7$

x) $a+8.9=-12.6$
 $\Rightarrow a=-12.6-8.9$
 $\Rightarrow a=21.5$

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

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

~~iii) $m+3\frac{1}{2}=7\frac{1}{4}$
 $\Rightarrow m=7\frac{1}{4}-3\frac{1}{2}$
 $\Rightarrow m=\frac{17}{4}-\frac{7}{2}$
 $\Rightarrow m=\frac{17-14}{4}=\frac{3}{4}$
 $\Rightarrow m=40$
 $\Rightarrow m=40 \times 4$~~

~~iiii) $m+3\frac{1}{2}=4\frac{1}{4}$
 $\Rightarrow m=4\frac{1}{4}-3\frac{1}{2}$
 $\Rightarrow m=\frac{17}{4}-\frac{7}{2}$
 $\Rightarrow m=\frac{17-14}{4}=\frac{3}{4}$
 $\Rightarrow m=40$
 $\Rightarrow m=40 \times 4$~~

$xii) x + 2 = 1\frac{1}{4}$
 $\Rightarrow x = 1\frac{1}{4} - 2$
 $\Rightarrow x = \frac{5}{4} - 2$
 $\Rightarrow x = \frac{5 - 8}{4}$
 $\Rightarrow x = -\frac{3}{4}$

~~$xiii) x + 2 = 1\frac{1}{4}$
 $\Rightarrow x = 1\frac{1}{4} - 2$
 \Rightarrow~~

$xiv) y + 5\frac{1}{3} = 4$
 $\Rightarrow y = 4 - 5\frac{1}{3}$
 $\Rightarrow y = 4 - \frac{16}{3}$
 $\Rightarrow y = \frac{12}{3} - \frac{16}{3}$
 $\Rightarrow y = -1\frac{4}{3}$

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

2) solve

$i) x - 3 = 2$
 $\Rightarrow x - 3 = 2$

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

$iii) b - 5 = 7$
 $\Rightarrow b = 7 + 5$
 $\Rightarrow b = 12$

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

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

$vi) z - 2\frac{1}{3} = -6$
 $\Rightarrow z = -6 + 2\frac{1}{3}$
 $\Rightarrow z = -6 + \frac{7}{3}$
 $\Rightarrow z = \frac{-18 + 7}{3}$
 $\Rightarrow z = -\frac{11}{3}$

vii) $P - 5.4 = 2.7$

$\Rightarrow P = 2.7 + 5.4$

$\Rightarrow P = 8.1$

viii) $x - 1.5 = 4.9$

$\Rightarrow x = 4.9 + 1.5$

$\Rightarrow x = 6.4$

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

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

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

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

$\Rightarrow n = -1$

3) solve :

i) $3x = 12$

$\Rightarrow x = 12 \div 3$

$\Rightarrow x = 4$

ii) $2y = 8$

$\Rightarrow y = 8 \div 2$

$\Rightarrow y = 4$

iii) $5z = 8.5$

$\Rightarrow z = 8.5 \div 5$

$\Rightarrow z = 1.7$

iv) $2.5m = 7.5$

$\Rightarrow m = 7.5 \div 2.5$

$\Rightarrow m = 3$

v) $3.2p = 16$

$\Rightarrow p = 16 \div 3.2$

$\Rightarrow p = 5$

vi) $2a = 4.6$

$\Rightarrow a = 4.6 \div 2$

$\Rightarrow a = 2.3$

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

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

$\Rightarrow z = 13$

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

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

$\Rightarrow m = 6 \div 2 \times 5$

$\Rightarrow m = 15$

vi) $\frac{n}{1} = -2.8$

$\Rightarrow n = -2.8 \div 1$

$\Rightarrow n = -2.8$

5. Solve :

$$\begin{aligned} \text{(i)} \quad -2x &= 8 \\ \Rightarrow x &= 8 \div -2 \\ \Rightarrow x &= -4 \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad -3.5y &= 14 \\ \Rightarrow y &= 14 \div -3.5 \\ \Rightarrow y &= -4 \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad -5z &= 4 \\ \Rightarrow z &= 4 \div -5 \\ \Rightarrow z &= -0.8 \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad -5 &= a+3 \\ \Rightarrow a &= -5+3 \\ \Rightarrow a &= -2 \end{aligned}$$

$$\begin{aligned} \text{(v)} \quad 2 &= p+5 \\ \Rightarrow p &= 2-5 \\ \Rightarrow p &= -3 \end{aligned}$$

$$\begin{aligned} \text{(vi)} \quad 4.5 &= m-2.7 \\ \Rightarrow m &= 4.5+2.7 \\ \Rightarrow m &= 7.2 \end{aligned}$$

$$\begin{aligned} \text{(vii)} \quad 3\frac{2}{5} &= x - 2\frac{1}{3} \\ \Rightarrow x &= 3\frac{2}{5} + 2\frac{1}{3} \\ \Rightarrow x &= \frac{17}{5} + \frac{7}{3} \\ \Rightarrow x &= \frac{41}{15} + \frac{21}{15} \end{aligned}$$

$$\begin{aligned} \text{(viii)} \quad 5 &= m + 3\frac{4}{7} \\ \Rightarrow 5 &= m + \frac{25}{7} \\ \Rightarrow m &= 5 - \frac{25}{7} \\ \Rightarrow m &= \frac{35}{7} - \frac{25}{7} \end{aligned}$$

$$\begin{aligned} \text{(ix)} \quad -2\frac{1}{5} &= y - 4 \\ \Rightarrow y &= 4 - 2\frac{1}{5} \end{aligned}$$

$$\Rightarrow x = 20$$

$$\Rightarrow m = \frac{35-25}{7}$$

$$\Rightarrow m = 10$$

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