Exc 22(A)

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

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

2. (i) $x - 3 = 2$
$\Rightarrow x = 2 + 3$
$\Rightarrow x = 5$

(ii) $m = 5 + 2$
$m = -3$

3. (i) $3x = 12$
$x = \frac{12}{3}$
$= 4$

(ii) $2y = 9$
$\Rightarrow y = 8.5/5$
$y = 1.7$

(iii) $5z = 8.5$
$z = 8.5/5$
$z = 1.7$

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

$\frac{5}{2}$.

$x = 10$

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

$y = -2 \times 3$

$y = 6$

5. (ii) $x = \frac{8}{2}$

$x = -4$

(ii) $-3.5y = -14$

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

$y = 4$

E22B

1. (i) $2x + 5 = 17$

$2x = 17 - 5$

$2x = 12$

$x = \frac{12}{2} \Rightarrow x = 6$

(ii) $3y - 2 = 1$

$3y = 1 + 2$

$3y = 3$

$y = \frac{3}{3}$

$y = 1$

2. (i) $\frac{x}{3} - 5 = 2$

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

$\Rightarrow \frac{x}{3} = 7$

$\Rightarrow x = 7 \times 3$

$\Rightarrow x = 21$

(ii) $\frac{y}{2} - 3 = 8$

$\frac{y}{2} = 8 + 3$

$\frac{y}{2} = 11$

$y = 11 \times 2$

$y = 22$

3. (c) $-8m - 2 = -10$

$-8m = -10 + 2$

$-8m = -8$

$m = \frac{-8}{-8}$

$m = 1$

(ii) $4x + 2x = 3 + 5$

$6x = 8$

$x = \frac{8}{6}$

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

$x = 1\frac{1}{3}$

Ex 22(c)

1. $5 - x = 3$

$5 - x = 3$

$-3 \quad -3 \quad -x = 3 - 5$

$-x = -2$

$x = 2$

2. $2 \times y = 8$

$-y = 8 - 2$

$= y = -6$

3. $8.4 - x = 2$

$-x = -2 - 8.4$

$-x = -10.4$

$= x = 10.4$

4. $x + 2(1/5) = 3$

$x + 11/5 = 3$

$x = 3 - 11$

$= x = \frac{(5 \quad 15 - 11)}{5}$

$x = \frac{4}{5}$

1. $x = 17 = 54$
$x = 54 - 17$
$x = 37$

2. $x - 8 = 26$
$x = 26 + 8$
$x = 34$

3. $\frac{1}{4} \times x + \left(\frac{2}{7}\right) \times x = 135$

$\left(\frac{x}{4}\right) + \left(\frac{2x}{7}\right) = 135$

$(7x + 8x) / 28 = 135$

15.

$15x = 135 \times 28$

$x = 9 \times 28$

$x = 252$