Class = VI Surya Narayan Mohanty
Chapter = 22
SIMPLE (LINER) EQUATIONS
Section = B

Date
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HOMEWORK - 22(A)

1. Solve

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

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

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

(iv) $x + 4 = -3$
$y = 5 - 8$
$y = -3$

(v) $y + 2 = -8$
$= x = -3 - 4$
$= x = -7$

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

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

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

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

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

(xi) $z + 2 = 4\frac{1}{5}$
$= z + 2 = \frac{21}{5}$
$= z = \frac{21}{5} - 2 = 21 - 10$
$= z = 2\frac{1}{5}$

(xii) $x + 2 = 1\frac{1}{4}$
~~$= m + \frac{7}{2} = \frac{17}{4}$~~
$= x + 2 = \frac{5}{4}$
$= x = \frac{5}{4} - 2 = \frac{5-8}{4}$
$= x = -\frac{3}{4}$

xiv) $y + 5\frac{1}{3} = 4$
$= y + \frac{16}{3} = 4$
$= y = 4 - \frac{16}{3} = \frac{12-6}{3} = \frac{-4}{3}$
$= a = -1\frac{1}{3}$

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

$a + \frac{16}{5} = \frac{3}{2}$

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

$a = -1\frac{7}{10}$

(2) Solve

(i) $x - 3 = 2$

$x = 2 + 3$

$x = 5$

(ii) $m - 2 = -5$

$m = -5 + 2$

$m = -3$

(iii) $b - 5 = 7$

$b = 7 + 5$

$b = 12$

(iv) $a - 2.5 = -4$

$a = -4 + 2.5$

$a = 1.5$

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

$y - \frac{7}{2} = 6$

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

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

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

$z - \frac{7}{3} = -6$

$z = -6 + \frac{7}{3} = \frac{-18+7}{3} = \frac{-11}{3}$

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

(viii) $x - 1.5 = -4.9$

$x = -4.9 + 1.5$

$x = -3.4$

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

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

(3) Solve

(i) $3x = 12$

$x = 12 \div 3 = 4$

(ii) $2y = 9$

$y = \frac{9}{5} = 4\frac{1}{2}$

(iii) $5z = 8.5$

$z = 8.5 \div 5 = 1.7$

(iv) $2.5m = 7.5$

$m = 7.5 \div 2.5 = 3$

(v) $3.2p = 16$

$P = 16 \div 3.2 = \frac{16 \times 10}{32} = 5$

(vi) $2a = 4.6$

$a = 4.6 \div 2 = 2.3$

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

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

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

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

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

$m = \frac{5}{2} \times 6 = 5 \times 3 = 15$

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

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

(4) Solve

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

$x = 5 \times 2$

$x = 10$

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

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

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

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

(i) $-2x = 8$

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

(ii) $-3.5y = 14$

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

$x = \frac{-14 \times 10}{35} = -2 \times 2 = -4$

(iii) $-5z = 4$

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

(iv) $-5 = a + 3$

$a = -5 - 3 = -8$

(v) $2 = p + 5$

$p = 2 - 5 = -3$

(vi) $4.5 = m - 2.7$

$m = 4.5 + 2.7 = 7.2$

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

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

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

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

$-\frac{11}{5} = y - 4$

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