

Intro to Chapter 3 - WS #1

1. $y - 3 = 14$

$$\begin{array}{r} \cancel{+3} \quad +3 \\ y - 3 = 14 \\ \hline y = 17 \end{array}$$

✓ $17 - 3 = 14$
 $14 = 14$ ✓

2. $2.3 + y = 6.54$

$$\begin{array}{r} \cancel{-2.3} \quad -2.3 \\ 2.3 + y = 6.54 \\ \hline y = 4.24 \end{array}$$

3. $x + 4 = 10$

$$\begin{array}{r} \cancel{-4} \quad -4 \\ x + 4 = 10 \\ \hline x = 6 \end{array}$$

4. $-0.3 + x = 8$

$$\begin{array}{r} \cancel{+0.3} \quad +0.3 \\ -0.3 + x = 8 \\ \hline x = 8.3 \end{array}$$

$$\begin{array}{rcl}
 5. & x + \frac{3}{4} & = \frac{2}{3} \\
 & \underline{-\frac{3}{4}} & \quad \underline{-\frac{3}{4}} \\
 x & = \frac{2}{3} - \frac{3}{4} \\
 x & = \frac{8}{12} - \frac{9}{12} \\
 x & = -\frac{1}{12}
 \end{array}$$

$$\begin{array}{rcl}
 6. & y + \left(+\frac{2}{3}\right) & = \frac{4}{9} \\
 & \underline{-\frac{2}{3}} & \quad \underline{-\frac{2}{3}} \\
 y & = -\frac{2}{9} & \quad \frac{4}{9} - \frac{2}{3} \\
 & & \quad \frac{4}{9} - \frac{6}{9}
 \end{array}$$

$$\begin{array}{rcl}
 7. & -4.5 + y & = -1.7 \\
 & \underline{+4.5} & \quad \underline{4.5} \\
 & & y = 2.8
 \end{array}$$

$$\begin{array}{rcl}
 8. & y - 1\frac{1}{3} & = -3\frac{5}{6} \\
 & \underline{+1\frac{1}{3}} & \quad \underline{+1\frac{1}{3}} \\
 y & = -\frac{23}{6} + \frac{4}{3} \\
 & \underline{+\frac{8}{6}} & \\
 y & = -\frac{23}{6} + \frac{8}{6} \\
 & \underline{-\frac{15}{6}} & \\
 y & = -\frac{5}{2}
 \end{array}$$

9. $y + (-4) = 5$

$$\begin{array}{r} y + 4 = 5 \\ -4 \quad -4 \\ \hline y = 1 \end{array}$$

10. $x - 3.2 = -6.8$

11. $2\frac{1}{5} + x = -3\frac{1}{2}$

12. $-23 + a = 14$

$$13. \quad n + 1\frac{1}{3} = -3$$

$$14. \quad n + \frac{1}{2} = \frac{3}{4}$$

$$15. \quad y - \frac{2}{3} = \frac{4}{9}$$

$$16. \quad -3 + b = -9$$

$$17. \quad x - (-2) = -6$$

$$18. \quad x + 4 = 21$$

$$19. \quad x - 2 = -14$$

$$20. \quad -3 + x = -10$$