

Name KEY

Chapter 6 Test Review

Solve each equation. SHOW YOUR WORK

$$5. \begin{array}{r} 7 + n = -5 \\ -7 \quad -7 \end{array}$$

$$\boxed{n = -12}$$

$$6. \begin{array}{r} 11 = y - 6 \\ +6 \quad +6 \end{array}$$

$$\boxed{y = 17}$$

$$7. \begin{array}{r} 8 = x + 1 \\ -1 \quad -1 \end{array}$$

$$\boxed{x = 7}$$

$$8. \begin{array}{r} t - 34 = -15 \\ +34 \quad +34 \end{array}$$

$$\boxed{t = 19}$$

$$9. \begin{array}{r} 96 = 12d \\ \frac{96}{12} \quad \frac{12d}{12} \end{array}$$

$$\boxed{d = 8}$$

$$10. \begin{array}{r} 4z = 20 \\ \frac{4z}{4} \quad \frac{20}{4} \end{array}$$

$$\boxed{z = 5}$$

$$11. \begin{array}{r} \frac{2}{5} = -2 \cdot 5 \\ \frac{2}{5} \cdot \frac{5}{5} \end{array}$$

$$\boxed{y = -10}$$

$$12. \begin{array}{r} 7 + \frac{7}{9}x = -42 \\ -7 \quad -7 \end{array}$$

$$\frac{9}{7} \cdot \frac{7}{9}x = \frac{-7 \cdot 49 \cdot 9}{7}$$

$$13. \begin{array}{r} \frac{2}{1} \cdot \frac{x}{2} = \frac{1}{3} \cdot \frac{3}{1} \\ \frac{2}{2} \cdot \frac{x}{2} = \frac{1 \cdot 3}{3 \cdot 1} \end{array}$$

$$\boxed{x = -63}$$
$$\boxed{a = \frac{7}{3} \text{ or } 2\frac{1}{3}}$$

$$14. \begin{array}{r} \frac{8}{3} \cdot \frac{x}{8} = \frac{4 \cdot 18 \cdot 5}{1 \cdot 3} \\ \frac{8}{8} \cdot \frac{x}{8} = \frac{4 \cdot 18 \cdot 5}{1 \cdot 3} \end{array}$$

$$\boxed{x = 30}$$

$$15. \begin{array}{r} 4x + 1 = -15 \\ -1 \quad -1 \end{array}$$

$$\frac{4x}{4} = \frac{-16}{4}$$

$$\boxed{x = -4}$$

$$16. \begin{array}{r} 2x + 9 = -5 \\ -9 \quad -9 \end{array}$$

$$\frac{2x}{2} = \frac{-14}{2}$$

$$\boxed{x = -7}$$

$$17. \begin{array}{r} \frac{4}{2} \cdot \frac{2}{2}(x+3) = \frac{2}{1} \cdot \frac{-5}{2} \\ \frac{4}{2} \cdot \frac{2}{2}(x+3) = \frac{2 \cdot -5}{1 \cdot 2} \end{array}$$

$$x + 3 = \frac{-10}{2}$$

$$18. \begin{array}{r} .4p = -9 \\ \cdot 4 \quad \cdot 4 \end{array}$$

$$\boxed{x = -13}$$
$$\boxed{p = -22.5}$$