

~~1.0 Solving Algebraic Proportions~~ Review

1) 9

3) -3

5) $7 + 9x + 19 - 5x$

$$7 + 19 + 9x - 5x$$

$$\boxed{26 + 4x}$$

7) $3(k-1) - 7k + 15$

$$3k - 1 - 7k + 15$$

$$3k - 7k - 1 + 15$$

$$\boxed{-4k + 14}$$

9) $4\frac{1}{2} + d = 3\frac{1}{4}$

$$d = 3\frac{1}{4} - 4\frac{1}{2}$$

$$d = 3\frac{2}{8} - 4\frac{4}{8}$$

$$\boxed{d = -1\frac{1}{2}}$$

11) $\frac{5}{8}s = 10$ $s = 10 \div \frac{5}{8}$ $s = \frac{10}{1} \cdot \frac{8}{5} = 12$

$$\boxed{s = 12}$$

Review

1. B Solving Algebraic Proportions

$$13) 2f - 15 = 3$$

$$\frac{2f}{2} = \frac{18}{2}$$

$$\boxed{f = 9}$$

$$15) 15 - 4(n + 6) = -21$$

$$15 - 4n - 24 = -21$$

$$15 - 4n = 3$$

$$-4n = -12$$

$$\boxed{n = 3}$$

$$17) -8x + 4 + 14x = 4\left(\frac{3}{2}x - 1\right)$$

$$4 - 8x + 14x = \frac{12}{2}x - 4$$

$$8x + 14x = 6x$$

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

$$-7 = 0$$

Review

$$19) \frac{3}{-2} = \frac{3k-6}{k+5}$$

$$3(k+5) = -2(3k-6)$$

$$\begin{array}{c} 3k+15 \\ -3k \end{array} = \begin{array}{c} -6k+12 \\ -3k \end{array}$$

$$\begin{array}{c} 15 \\ -12 \end{array} = \begin{array}{c} -9k+12 \\ -12 \end{array}$$

$$\frac{3}{-9} = \frac{-9k}{-9}$$

$$-\frac{1}{3} = k$$

$$21) \frac{30.75 - 6.75}{2} = b$$

$$\frac{24}{2} = b$$

$$\boxed{12 = b}$$