

**Accelerated Math Mixed Practice**  
**(8.1-8.5) Solving Equations**

Name \_\_\_\_\_  
Block \_\_\_\_\_ Date \_\_\_\_\_

**Solve and check these equations using the steps discussed in class.**

Remember the steps for solving an equation.

- \*Simplify each side of the equation by using distributive property to clear parentheses and by combining like terms.
- \* Choose a variable term. Add or subtract that term to both sides to move variable term to other side of equation.
- \* You should now have a 2-step equation. Add or subtract the constant that is with the variable term to move it to other side
- \* You should now have a 1-step equation. Multiply or Divide by the coefficient to get the variable by itself.

1)  $-\frac{5}{6}k = \frac{4}{5}$

2)  $n - \frac{4}{9} = -\frac{1}{12}$

3)  $-12 - 4x = 24$

4)  $\frac{k}{-2} = -8 - 12$

5)  $-4 + 3n - 4n = -10$

6)  $6(x - 4) = -8$

$$7) \quad -\frac{1}{4}n - 8 = -14$$

$$8) \quad \frac{3}{4}(x - 12) = -6$$

$$9) \quad 8x + 7 = 2x - 5$$

$$10) \quad 12 - 4x = -7x - 3$$

$$11) \quad 9 - a = 8a$$

$$12) \quad -4.2n + 4 = 2.3n - 9$$

13)  $-10x - 2 = 7 - 4x$

14)  $\frac{2}{5}n - 3 + \frac{3}{4}n = 4 - \frac{2}{5}n + 3$

15)  $-\frac{2}{3}n + 12 = -6$