

Name \_\_\_\_\_

Date \_\_\_\_\_

**Unit 2**

**Lesson 1**

**Do Now:**

Identify the following as “expression”, “equation”, or “inequality”.

a)  $5x + 4 = 10$

b)  $6y - 8$

c)  $9b - 4 > 14$

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**Aim: Algebraic Expressions vs Equations/Inequalities & Identifying Properties when Solving Equations with the Variable on 1 Side**

1. Given  $\frac{2}{3}x = 10$ . Which value of  $x$  will make the sentence true? Identify the property used in each step.

2. Given  $3x + 4 = 16$ . Solve and check. Identify the property used in each step.

3. Given  $\frac{1}{3}(6b+9)+b=0$ . Which value of **b** will make the sentence true? Identify the property used in each step.

4. Given  $\frac{3x}{8}=12$ . Which value of **x** will make the sentence true? Identify the property used in each step.

5. Given  $8y-(2y-3)=9$ . Solve and check? Identify the property used in each step.

6. Given  $8x + 4 - 3x + 10 = 24$ . Which value of  $x$  will make the sentence true? Identify the property used in each step.

7. Which of the following is an equation?

7. \_\_\_\_\_

a.  $3x - 6$

b.  $5m < 10$

c.  $7w + 4 = 25$

d.  $48 + 27y$

Extra practice:

Solve:

8.  $12 - (3x + 7) = 8$

9.  $9x - 3x + 10 = -8$