



NAME _____

DATE _____

Module 3 Solving Linear Equations of One Variable
Lesson 1 Identifying Properties of Equality

Set 1

State and write the definition for the Property of Equality illustrated below.

1. If $a = 3$, then $3 = a$.

2. If $2x = 8$, then $x = 4$.

3. If $x + 2 = 4 - y$ and $4 - y = 7$, then $x + 2 = 7$.

4. If $x - 5 = 4$, then $x = 9$.

Set 2

Given the following algebraic problem, find the reason for each statement: $4x - 1 = 15$

$$4x = 16$$

$$x = 4$$

1. What is the reason for statement one: $4x - 1 = 15$? _____

2. What is the reason for statement two: $4x = 16$? _____

3. What is the reason for statement three: $x = 4$? _____

Given the following algebraic problem, find the reason for each statement: $\frac{y}{3} + 2 = 6$

$$\frac{y}{3} = 4$$

$$y = 12$$

4. What is the reason for statement one: $\frac{y}{3} + 2 = 6$? _____

5. What is the reason for statement two: $\frac{y}{3} = 4$? _____

6. What is the reason for statement three: $y = 12$? _____

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