

Name: _____

Date: _____

1.1 Solving Simple Equations

Essential Question: _____

Complete the exploration part 1 (all) part 2 (omit drawing the quadrilaterals), part 3 (omit 4 and 5).

- An equation is a statement that two _____ are _____. Ex: _____

- A solution of an equation is a _____ that makes the equation _____.

- A variable is an _____ value that makes the equation _____.

- Inverse operations are two _____ that undo each other.

- Addition will undo _____ and vice versa.

- Multiplication will undo _____ and vice versa.

- Addition Property of _____

Words: _____

Algebra: _____

- Subtraction Property of _____

Words: _____

Algebra: _____

- Multiplication Property of _____

Words: _____

Algebra: _____

- Division Property of _____

Words: _____

Algebra: _____

EXAMPLE 1 Solving Equations by Addition or Subtraction

Solve each equation. Justify each step. Check your answer.

a. $x - 3 = -5$

b. $0.9 = y + 2.8$

EXAMPLE 2 Solving Equations by Multiplication or Division

Solve each equation. Justify each step. Check your answer.

a. $-\frac{n}{5} = -3$

b. $\pi x = -2\pi$

c. $1.3z = 5.2$