



**PROBLEM SET 4: Identifying the Number of Solutions to Equations**

➤ Determine whether each equation has one solution, no solutions, or an infinite number of solutions. If the equation has a solution identify it.

1  $2x = 18$

One solution

$x = 9$

2  $x = 4x$

3  $6 = x + 3$

4  $15 = 5 \cdot x$

5  $x + 9 = 9 + x$

6  $x - 1 = x + 1$

7  $20 - x = 7$

8  $x = 1x$



## TOPIC 2 EQUATIONS SKILLS PRACTICE

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

### PROBLEM SET 1: Identifying Solutions to Equations

➤ Use substitution to determine which of the given values is the solution to each equation.

1 {4, 9, 13, 21, 25}

$$a + 0 = 13$$

$$(13) + 0 = 13$$

$$a = 13$$

2 {18, 34, 36, 100}

$$2b = 36$$

3 {17, 24, 37, 81, 220}

$$c = 110(2)$$

4 {1, 3, 5, 7, 9, 11}

$$d - 7 = 1 + 3$$

5 {0, 4, 9, 13, 15}

$$2 + f = 13 - 2$$

6 {2, 6, 12, 18, 36}

$$3 = \frac{g}{6}$$