



TOPIC 2 EQUATIONS
SKILLS PRACTICE continued

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}

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