

Skill: Solving Inequalities**Investigation 2****Thinking With Mathematical Models**

Determine whether each number is a solution of the given inequality.

1. $x \leq -8$ a. -10 b. 6 c. -8

2. $-1 > x$ a. 0 b. -3 c. -6

3. $w < \frac{18}{7}$ a. 5 b. -2 c. $3\frac{1}{2}$

4. $0.65 \geq y$ a. 0.43 b. -0.65 c. 0.56

5. $2y + 1 > -5$ a. -4 b. -2 c. 4

6. $7x - 14 \leq 6x - 16$ a. 0 b. -4 c. 2

7. $n(n - 6) \geq -4$ a. 3 b. -2 c. 5

Write an inequality for each situation.

8. Everyone in the class is under 13 years old. Let x be the age of a person in the class.

9. The speed limit is 60 miles per hour. Let s be the speed of a car driving within the limit.

10. You have \$4.50 to spend on lunch. Let c be the cost of your lunch.