

HOMEWORK

Determine which of the given values are solutions of the inequality.

1. $x + 6 > 2$ when $x = 10, 9, 8, 7$

2. $4x \leq 28.8$ when $x = 5.2, 6, 6.2, 7.2, 8$

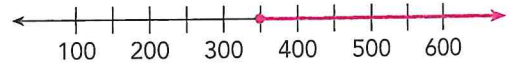
3. $x - 12 > 5.8$ when $x = 15, 20, 25, 30$

4. $1.9 \leq x$ when $x = 0, 0.1, 2.2$

5. $x = 0, 1.5, 15$



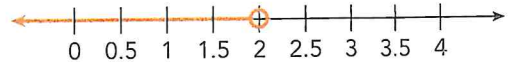
6. $x = 3000, 300, 30$



Problem Solving

7. Rich can spend at most \$5.75. He buys a novel for \$4.25. Let n equal the price of a notebook. Use the inequality $n + \$4.25 \leq \5.75 to substitute and determine whether Rich can buy a small notebook, a large notebook, or both. Suppose a small notebook costs \$1.50 and a large notebook costs \$2.50.

8. Anna thinks the number line shows the equation $x = 2$. Sarah thinks the number line shows the inequality $x < 2$. Gina thinks it shows $x \leq 2$. Who is correct? How do you know?



Write About It

9. Luca has a number line that shows an inequality. He wants to determine if a certain value is a solution of the inequality. Describe how Luca can use the number line to decide if the value is a solution of the inequality.

