

Inequalities Describe Many Solutions



Name: _____ Date: _____

Use the material to work through each task. Show the requested response.

Check the relation

An inequality can have many solutions. Adding the same amount to both sides preserves order. Multiplying or dividing both sides by a negative number reverses the inequality sign.

1. Solve $x + 3 > 8$.

2. Is $x = 5$ a solution to $x + 3 > 8$?

3. Solve $-2x < 6$.

4. Name one integer solution to $x > -3$.

5. Show $x \leq 2$ on a number line.

6. Explain why $-2x < 6$ gives $x > -3$.
