

Date:

Use Symbols to Describe Relationships

Mathematicians use symbols for operations and to show relationships between quantities. For example,

× represents multiplication	> represents is greater than
 represents division 	= represents is equal to
< represents is less than	≠ represents is not equal to

1. Translate each word
statement into symbols.2. Write each mathematical
statement in words.a) 5 is greater than 2.a) 4 < 8</td>b) 7 is less than 20.b) 8 > 2c) 5 multiplied by 3.c) 14 ÷ 2d) 9 is equal to $\frac{18}{2}$.d) 4 ≠ $\frac{8}{3}$

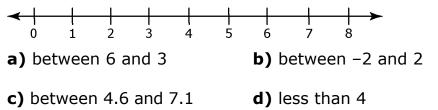
Use Between

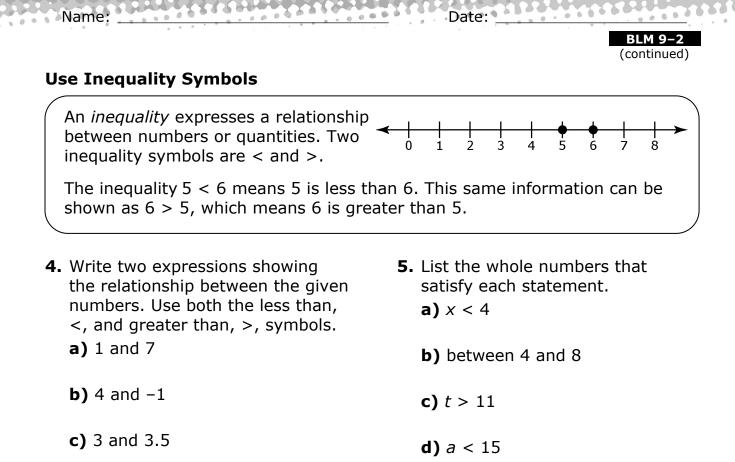
Chapter 9

lead

The term *between* can be used to describe a physical relationship or -2 -1 0 1 2 3location. For example, Paul is *between* Sue and Shasta in line. Similarly, *between* can be used in mathematics. For example, all of the integers between -2 and 3 are -1, 0, 1 and 2Note that *between* does not include -2 and 3.

3. List all of the whole numbers satisfying each condition. Use the number line to help you.





d) 0 and 1

Solve Equalities

When you solve an equation, you need to find all values for the unknown that make a true statement.

Solve: 2x - 1 = 7.Check:Solution:2x - 1 + 1 = 7 + 12(4) - 1 = 72x = 88 - 1 = 7x = 47 = 7

6. Solve each equation. Then, verify your answer.

- **a)** x + 4 = 6 **b)** -2x + 1 = 9
- **c)** -5x 3 = -8 **d)** 3x 5 = 4