Name: _____ Date: _____

Get Ready

Use Symbols to Describe Relationships

You can use symbols for operations and to show relationships between quantities.

Symbol	×	÷	>	<	=	≠
Meaning	multiply	divide	greater than	less than	equal to	*not* equal to

- example: $11 < 22$ means 11 is less than 22

1. Write each word statement using symbols.

a) 5 is greater than 2 _____

b) 7 is less than 20 _____

c) 5 multiplied by 3 _____

d) 9 is equal to $\frac{18}{2}$ _____

2. Write each mathematical statement in words.

a) $4 < 8$ _____

b) $8 > 2$ _____

c) $14 \div 2$ _____

d) $4 \neq \frac{8}{3}$ _____

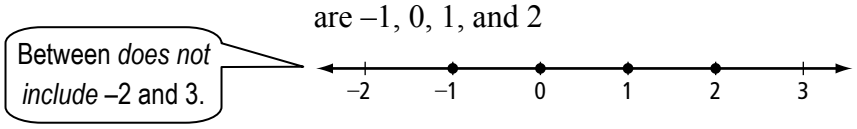
Use Between

Between can describe

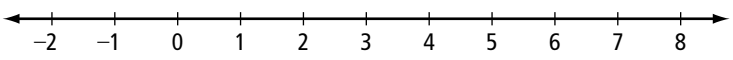
- a physical relationship
- example: Paul is *between* 2 dogs

or

- a location
- example: the integers *between* –2 and 3 are –1, 0, 1, and 2



3. List all the *whole* numbers that make the statement true.



a) between 6 and 3 _____

b) between –2 and 2 _____

c) between 4.6 and 7.1 _____

d) between –1 and 4 _____

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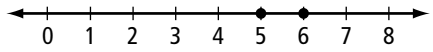
Use Inequality Symbols

FOLDABLES™ Study Tool

inequality
- compares expressions that may not be equal
- inequality symbols: $<$, $>$, $\leq$, $\geq$, or $\neq$

$5 < 6$ is an inequality. You can also write it as $6 > 5$.



5 is less than 6.

6 is greater than 5

4. Write 2 expressions showing the relationship between the numbers. Use the symbols < and >.

a) 1 and 7

1 _____ 7 or 7 _____ 1

b) 4 and –1

_____

5. List 4 whole numbers that satisfy each statement.

a) $x < 4$ 0, 1, 2, 3,...

_____

b) $t > 11$

_____

Solve Equalities

Solve and check $2x - 1 = 7$.

$2x - 1 + \mathbf{1} = 7 + \mathbf{1}$ Use the opposite operation.

$2x = 8$

$\frac{2x}{\mathbf{2}} = \frac{8}{\mathbf{2}}$

$x = 4$

Check:

Left Side	Right Side
$2x - 1$	7
$= 2(\mathbf{4}) - 1$	✓
$= 8 - 1$	
$= 7$ ✓	

6. Solve. Then, verify your answer.

$-2x + 1 = 9$

$-2x + 1 - $ _____ $= 9 -$ _____

$-2x =$ _____

$\frac{-2x}{\mathbf{-2}} = \frac{\square}{\square}$

$x =$ _____

Check:

Left Side	Right Side
$-2x + 1$	9