

# WARM UP

$$1) 6x > 36$$

$$2) x + 2.21 < 10$$

$$3) x/5 < 5$$

$$4) 3x > 24$$

# MATH COURSE I

Graph  
Inequalities

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# VOCABULARY

Inequality: a statement that shows two quantities are **not** equal

$<$  less than

$>$  Greater than

$\leq$  less than or equal to

$\geq$  greater than or equal to

$\neq$  not equal to

# Vocabulary

Open Circle: used to graph answers that are greater than  $>$  and less than  $<$

Closed Circle: used to graph answers that are greater than or equal to  $\geq$  and less than or equal to  $\leq$

# Steps

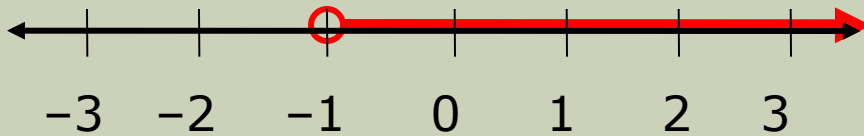
## One-step Inequalities

- Create a number line.
- Locate the number on the graph.
- Place an opened or closed circle at that point.
- Draw a line with an arrow in the correct direction.

# Graph the Solutions

Example:

$$t > -1$$



# You Try!

1)  $y \leq 11$

2)  $x \leq 4$

# More Practice

$$3) x - 3 \geq 5$$

$$4) 5 < x + 3$$



# Solve and Graph

1)  $8y < 32$

2)  $e/4 > 4$

3)  $3x < 9$

4)  $7 + r \geq 12$

5)  $y - 15 < 10$