

# **Math Virtual Learning**

# 6th Grade Math Understanding and Graphing Inequalities

April 21, 2020



6th Grade Math Lesson: April 21, 2020

Objective/Learning Target:
Students will understand, use, and graph one-variable inequalities.

# Warm up

Put the numbers in order from least to greatest.

Write your answer on a piece of paper

14 -8 23 6 -12 -20 7 20

Compare the pairs of numbers using < or >

# Warm up answers

Put the numbers in order from least to greatest.

Write your answer on a piece of paper

Compare the pairs of numbers using < or >

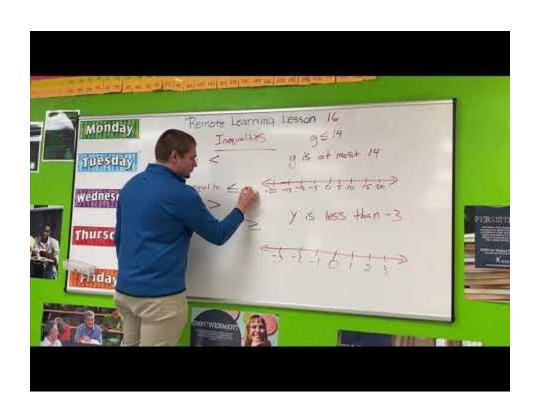
## So what is an inequality?

An inequality is a mathematical sentence that shows the relationship between two quantities that are NOT equal.

Dot	Symbol	Meaning	Word phrases
open	<	is less than	Fewer than, below
open	>	is greater than	More than, above
closed	<b>S</b>	is less than or equal to	At most, no more than
closed	2	is greater than or equal to	At least, no less than

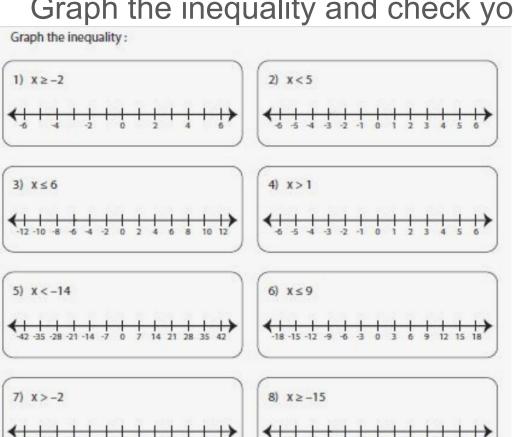
When reading an inequality, read it left to right, like a sentence.

#### Click to watch the video.



#### **Practice**

Graph the inequality and check your answers on the next slide

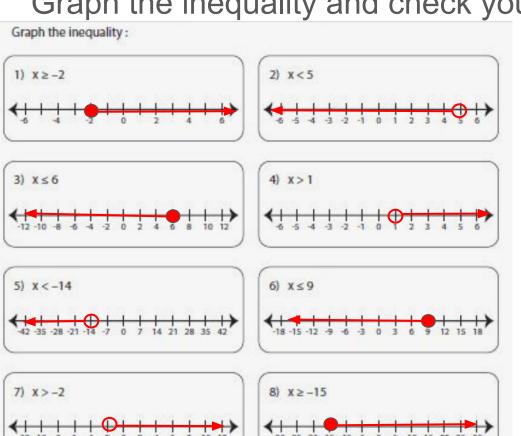


# Think!

Will the dot be open or closed? Which direction will the arrow go?

#### **Practice answers**

Graph the inequality and check your answers on the next slide



### Think!

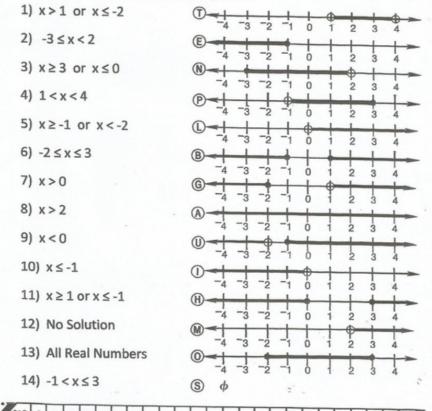
Will the dot be open or closed? Which direction will the arrow go?

# Extra Practice Challenge!

Read the instructions carefully! Write your answer on a piece of paper and check the next slide to see if you're right!

### What is ABCDEFGHIJKLMNOPQRSTUVWXYZ, Slurp?

Match any compound inequality below with the graph of its solution set. Write the letter next to the graph in each box that contains the number of that exercise. Keep working and you will discover the answer to the title question.



## So what's the challenge answer?

Someone eating alphabet soup!

#### **Reflection**

On a piece of paper, write your understanding of today's lesson. Use the chart to help you. Go into detail explaining where you are struggling, or where you are succeeding.

Email your teacher if you feel like you need

further assistance with today's lesson!

#### **Rate Your Understanding**

0	1	2	3	4
<b></b>	•••			9
I am so lost.	I don't really get it.	I'm starting to get it.	I got this.	I could teach it.

# Additional Resources

Khan Academy

<u>Game</u>