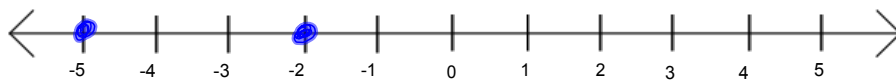


# 8th Grade Lesson 72

- I can graph inequalities.



$$-5 < -2$$

$$-2 > -5$$

An **equation** state that two quantities are equal.

A **statement of inequality** states that two quantities are not equal.

$$2 \leq 4$$

*could be "or equal to"*

Some statements of inequality are false.

$$4 > 10$$

A statement of inequality that contains a variable is called a **conditional inequality**.

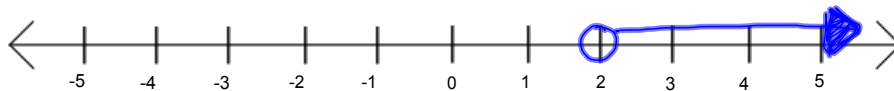
$$x > 2$$

$$x = 3$$

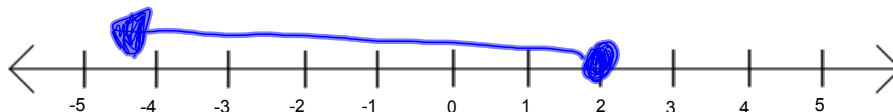
$$x = 2.0000001$$

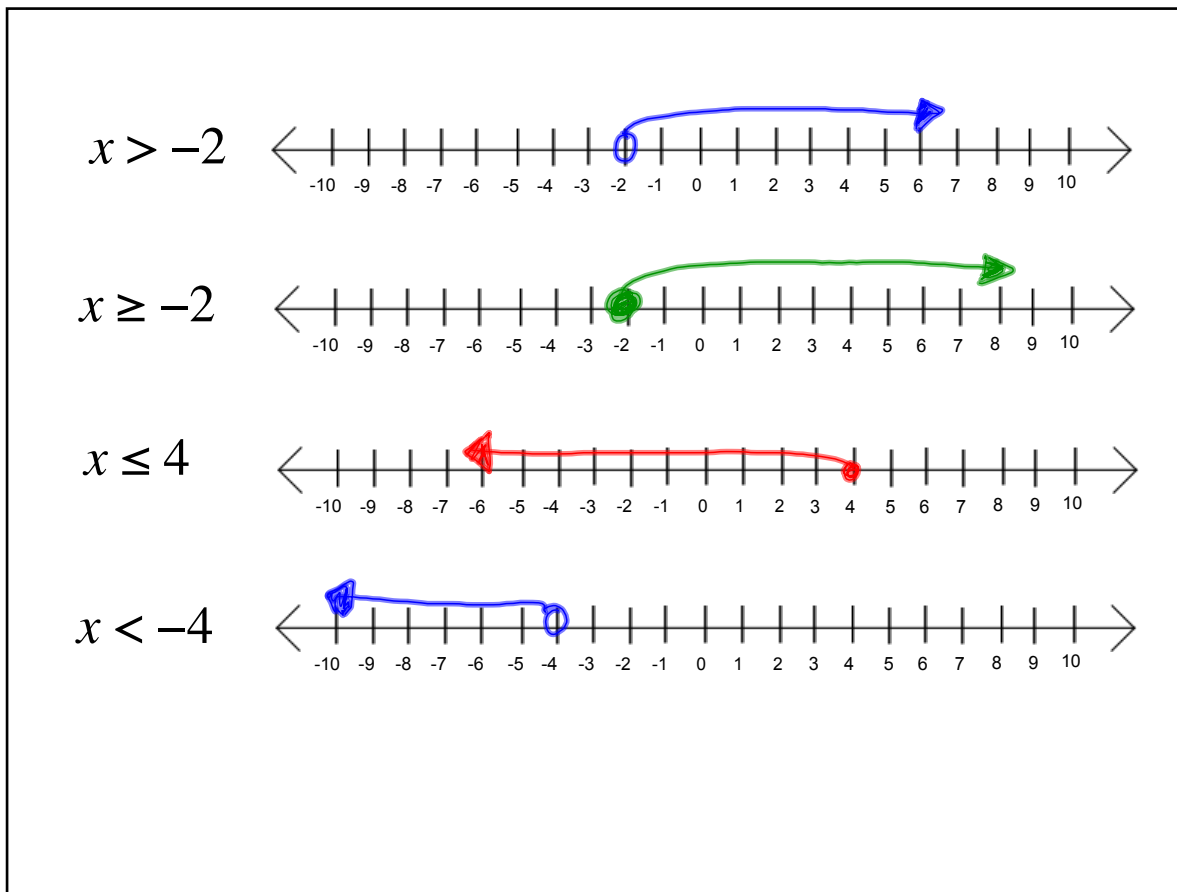
If the replacement number makes the inequality a true inequality, the number is a **solution of the inequality**.

Graph  $x > 2$



Graph  $x \leq 2$

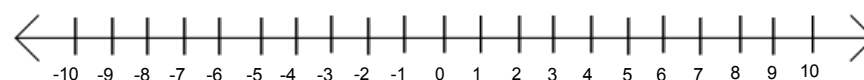
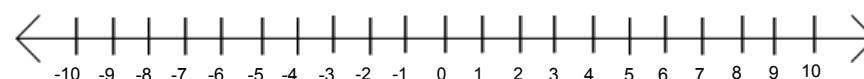
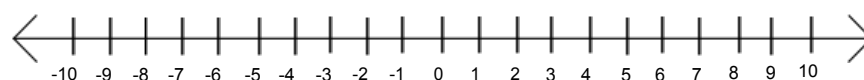
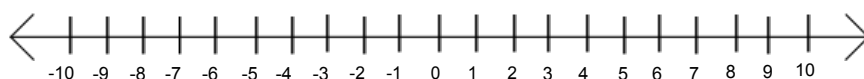
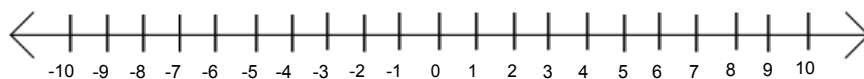




## Assignment:

Problem Set 72 #1-10, 12-15, 17-18,





## Things in your binder....

### Notes for

Lessons 61, 62, 63, 64, 65, 66-67, 68, 69-70, 71;  
Test #15 Review

### Assignments:

2-Step Equations

PS 62 #3-6, 14-15, 19-21

PS 63...Part 1 #1, 2, 6, 7, 9-12 & Part 2 #13, 15, 16, 20-23, 26-30

PS 63...Part 3 Practice A-B, #3-5, 17-19

PS 64...#1-5, 7, 10-19

PS 65...#1-4, 6, 10-19

Ratios Practice Sheet

PS 68...#1, 2, 7-9, 13-15, 19-25

PS 70...#3-5, 7, 8, 10-14, 16-24, 27-29

PS 71...#1-7, 11-13, 17-24

PS 69...#1-6, 8-14, 18-22, 28-30

## 2-Step Equations Review

$$3n - 4 = 14$$

$$2x + 5 = 21$$

#1.

$$\begin{array}{r}
 3x + 5 = 14 \\
 \underline{-5 \quad -5} \\
 3x = 9 \\
 \underline{\quad \quad 3} \\
 x = 3
 \end{array}$$

#2.

$$\begin{array}{r}
 3x + y = z \\
 \underline{-y \quad -y} \\
 3x = z - y \\
 \underline{\quad \quad 3} \\
 x = \frac{z - y}{3}
 \end{array}$$

$$x/4 - 10 = 6$$

$$\frac{x}{4} - 10 = 6$$

$$\underline{\quad +10 \quad +10}$$

$$\frac{x}{1} = 16 \cdot 4$$

$$x = 64$$