DISTRIBUTE! LEARNING GOAL

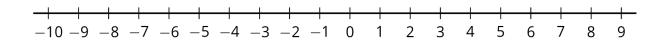
1. I can apply the distributive law to solve linear inequalities in one variable.

REVIEW

Solve $20-6p\geq 2$

Check:

Graph:



MAKING THE GRADE

Jenna received a 70% on a math assignment. To get at least an 80% in math class, her grade on the next assignment must be a solution to the inequality:

$$\frac{1}{2}(70+x) \ge 80$$

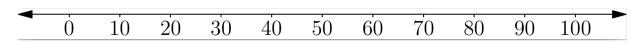
On the next slide, you will help her find what grade she needs.

EXAMPLE 1

Solve
$$\frac{1}{2}(70+x)\geq 80$$

Check:





FIND THE MISTAKE

One of the solutions contains a mistake. What is the mistake? Circle it and explain.

Solution 1

$$2(x+10) \ge 30$$

$$2x + 20 > 30$$

$$-20 - 20$$

$$2x \geq 10$$

$$x \geq 5$$

Solution 2

$$2(x+10) \ge 30$$

$$-10 - 10$$

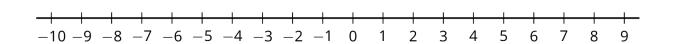
$$2x \geq 20$$

EXERCISE 1

Solve $13-2a \geq 21$

Check:

Graph your solution:



FIND THE MISTAKE

One of the solutions contains a mistake. What is the mistake? Circle it and explain.

Solution 1

Solution 2

$$egin{array}{c} x+2>8 \ -2 & -2 \ \hline x>6 \ \hline \end{array}$$

$$egin{array}{c} x+2>8 \ -2 & -2 \ \hline x<6 \ \end{array}$$

FIND THE MISTAKE

One of the solutions contains a mistake. What is the mistake? Circle it and explain.

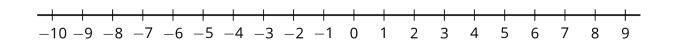
Solution 1 Solution 2
$$-\frac{1}{2}x > 8$$
 $-\frac{1}{2}x > 8$ $-\frac{1}{2}x > 8$ $(-2) \cdot -\frac{1}{2}x < (-2) \cdot 8$ $x > -16$ $x < -16$

DISTRIBUTE TO SOLVE

Solve
$$2(5+3a) \geq 40$$

Check:

Graph:

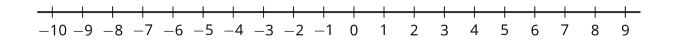


DISTRIBUTE TO SOLVE

Solve
$$3(4-2a)\geq 18$$

Check:

Graph:



FINDING THE AVERAGE

Edmond took 3 tests and scored 80%, 90%, and 84%. What was his average test score?