Unit 4 Problem Set.

Unit: Inequalities Homework 1

Name \_\_\_\_\_\_\_Pd\_\_\_\_

## IS EVERYTHING EQUAL?

Substitute each variable to determine whether the inequality statement is true or false.

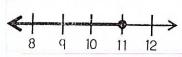
1. 
$$k + 12 \ge 20, k = 15$$

2. 
$$-16 > -f$$
,  $f = 15$ 

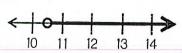
3. 
$$q > d, d = 3$$

Write an inequality for each solution set graphed below.

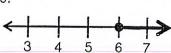
4.



5.



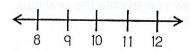
6.

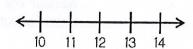


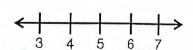
Practice graphing the following inequalities:

7. 
$$k \le 8$$

$$q. \quad d < 4$$



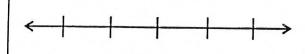




Based on the verbal expression below, write and graph an inequality.

10. The Parkland Zoo has a maximum capacity of 350 visitors (v).

11. Trina must spend at least 45 minutes (m) studying for her test.



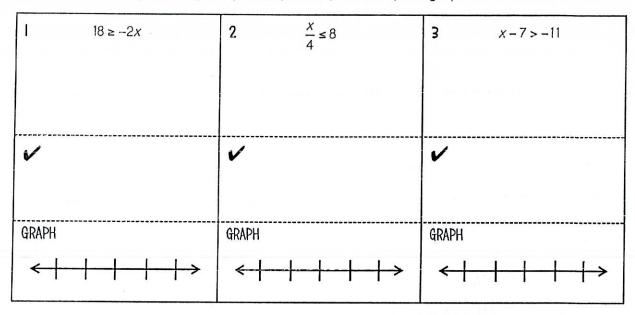
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Unit: Inequalities Homework 2

Name \_\_\_\_\_ Pd \_\_\_\_

## HOW DO YOU SOLVE AN INEQUALITY?

Solve the following one-step inequalities, check your work, and graph the solution.



- 4. Which inequality is true when x = 4?
- A.  $x+5 \le 3$  B.  $q_{X} > 36$
- C.  $\frac{x}{2} < 3$  D.  $18 \le x 8$
- 5. Which inequality is NOT true when x = -2?
- - 6x < -10 B. -2x > -3
- C.  $\frac{x}{4} \le 0$  D.  $-4 \le x 5$

6. Jasmine is baking and selling cupcakes for \$15 per dozen. She would like to make more than \$120 in cupcake sales. Which number line below represents the solutions to this situation?

