

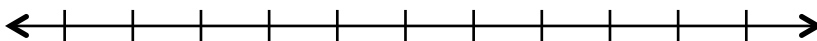
Name \_\_\_\_\_ Date \_\_\_\_\_

1. A farmer is going to plant more than 50 acres in corn this year. If  $a$  represents the number of acres planted in corn, write an inequality to describe all possible values of  $a$ .
2. High altitude parachute jumps are usually made from an altitude that is no more than 35,000 feet to avoid frostbite from extreme cold. If  $h$  represents the height of a jumper, write an inequality to describe all possible values of  $h$ .



Name \_\_\_\_\_ Date \_\_\_\_\_

1. At an amusement park, the height,  $h$ , that a person must be in order to ride the roller coaster is given by the inequality  $h > 48$  inches.



A. Graph this inequality.

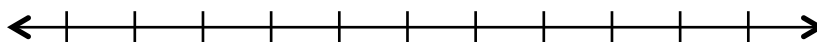
B. Circle all values from the list below that satisfy this inequality.

47.9 inches      48 inches      4.899 inches      48.00 inches

$50\frac{3}{4}$  inches       $48\frac{1}{4}$  inches       $\frac{48}{2}$  inches       $40\frac{8}{10}$  inches

C. Are there other possible values that will also satisfy this inequality? Explain.

2. The inequality  $12.5 \geq p$  represents the speeds that a personal transporter can attain in miles per hour.



A. Graph this inequality.

B. Circle all values from the list below that satisfy this inequality.

1.25 mph       $12\frac{1}{3}$  mph      12.05 mph       $12\frac{1}{2}$  mph

15.2mph       $\frac{12}{5}$  mph      125 mph       $\frac{125}{5}$  mph



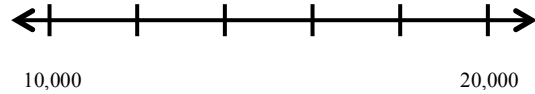
C. Are there other possible values that will also satisfy this inequality? Explain.

Name \_\_\_\_\_ Date \_\_\_\_\_



1. The inequality  $p > 15,000$  feet describes the altitudes at which a civil aircraft must provide everyone with supplemental oxygen, according to the U.S. Federal Aviation Regulations.

A. Graph this inequality.

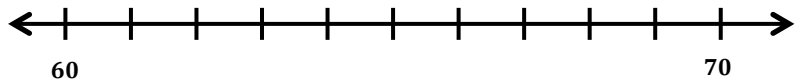


B. List three examples of altitudes at which oxygen use is required.

C. How many values does this inequality represent in all?

2. The inequality  $\$67.86 \geq b$  represents the amount of money Edin now has in her effort to save for a new bike costing \$67.86

A. Graph this inequality.



B. List three examples of amounts of money Edin may now have.

C. How many values does this inequality represent in all?