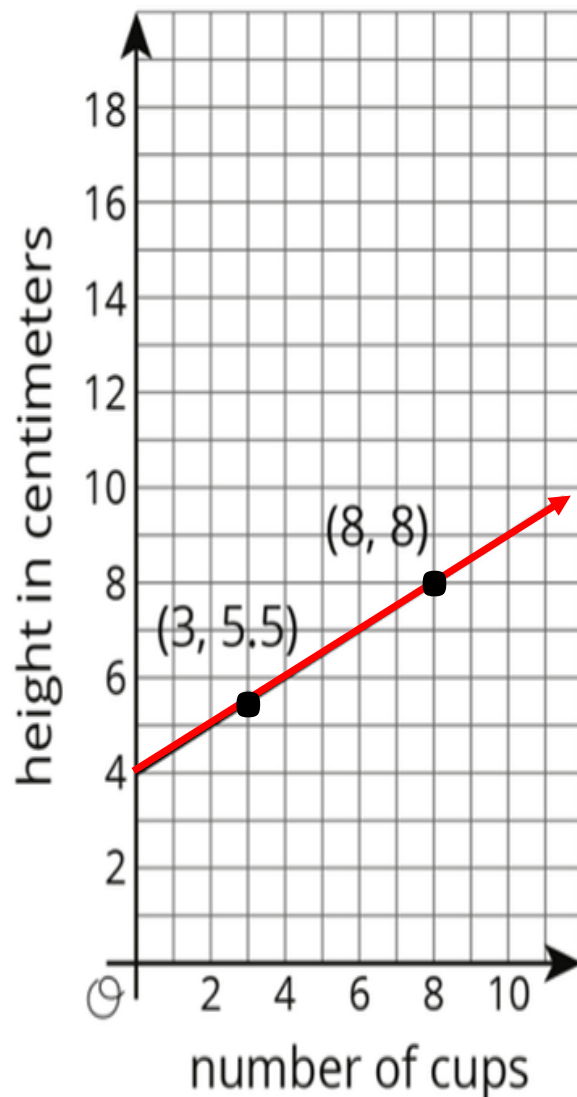
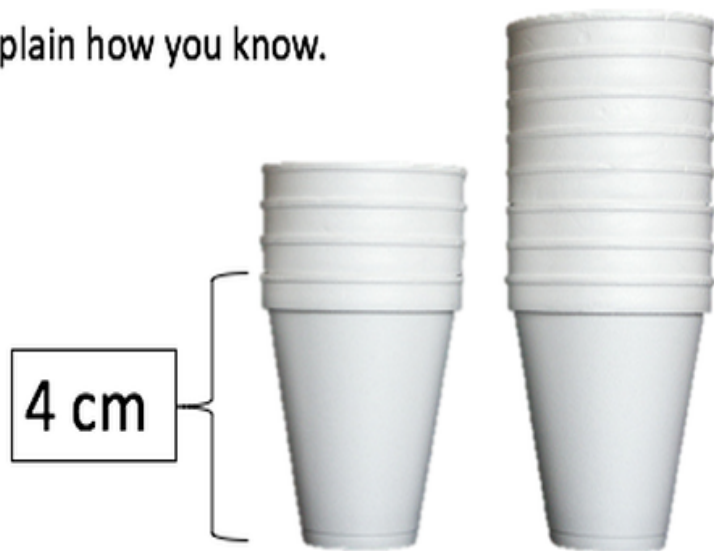


Warm-Up IM Unit 3 Lesson 5: Additional Questions:

**Directions:** Read the description and interpret the graph.

A Styrofoam cup is stacked tall. The graph displays the height of the stack in centimeters for different numbers of cups. The picture shows the initial height of a single cup before stacking. How much does each cup after the first add to the height of the stack?

Explain how you know.



○ What is the slope of the line? \_\_\_\_\_

○ What does the slope mean in the context of this line?

\_\_\_\_\_

\_\_\_\_\_

○ What is the y-intercept of this line? \_\_\_\_\_

○ What does the y-intercept mean in the context of this line?

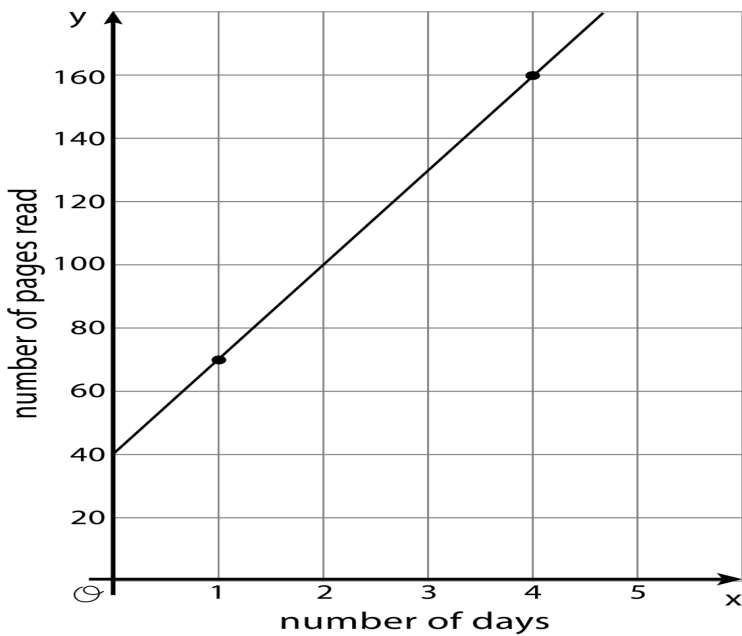
\_\_\_\_\_

\_\_\_\_\_

○ Is the relationship between the number of cups ( $x$ ) and the height of the stack in centimeters ( $y$ ) proportional or not proportional?

\_\_\_\_\_

\_\_\_\_\_



Questions:

Name three points on this line as ordered pairs.

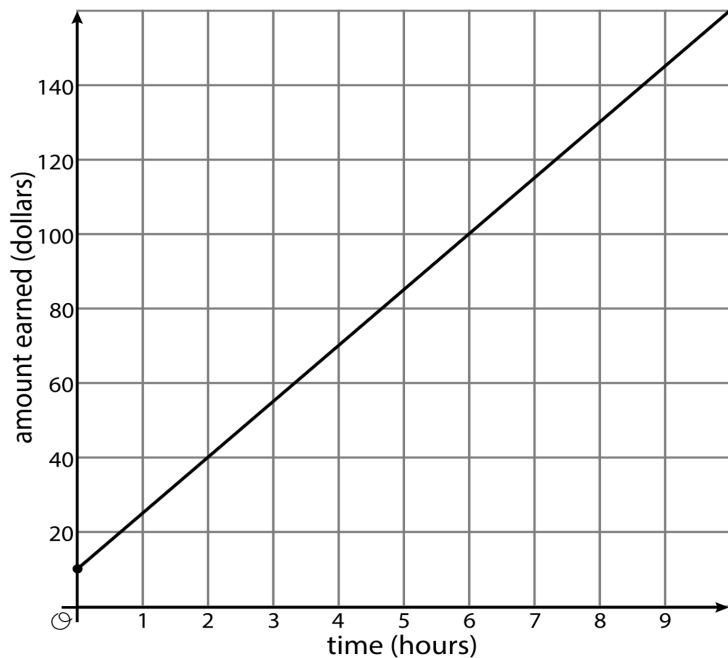
( , ) ( , ) ( , )

What is the slope of this line?

\_\_\_\_\_

What is the y-intercept of this line?

\_\_\_\_\_



Questions:

What is the slope of this line? \_\_\_\_\_

What does the slope mean in the context of this graph?

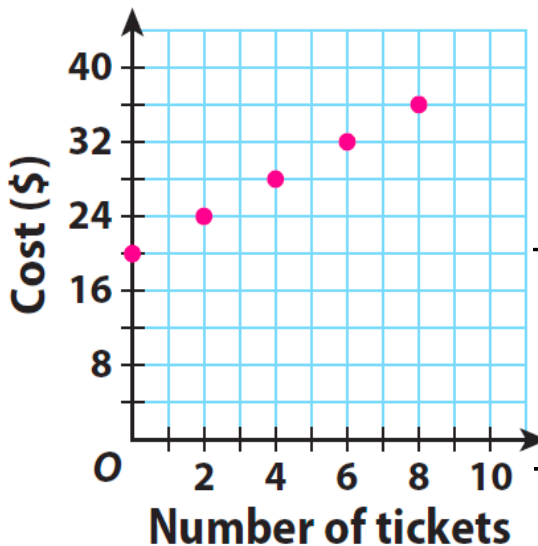
\_\_\_\_\_

What is the y-intercept of this line? \_\_\_\_\_

What does the y-intercept mean in the context of this graph?

\_\_\_\_\_

## Theme Park Costs



HAPPYLAND charges a one-time admission fee then a per-ticket fee for each ticket purchased.

What is the cost of the one-time fee? \_\_\_\_\_  
How is this fee related to the y-intercept of the line?

\_\_\_\_\_

What is the cost of each ticket purchased? \_\_\_\_\_  
How is the ticket cost related to the slope of the line?

\_\_\_\_\_