

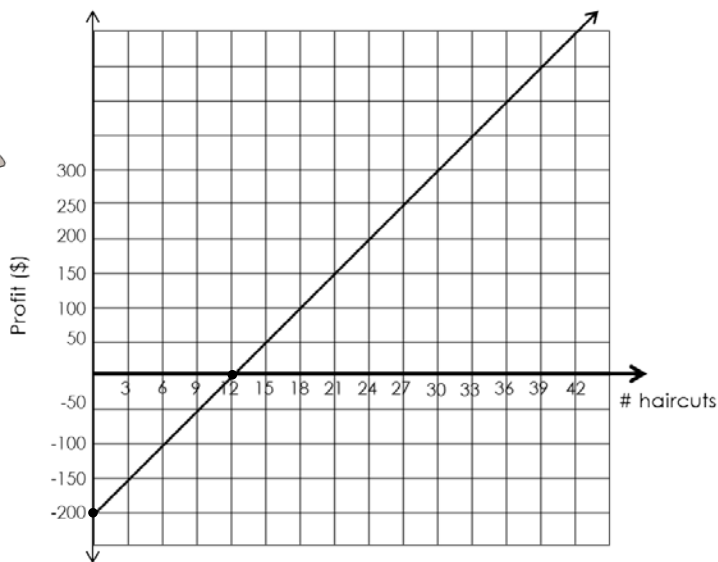
# Linear Graphs

Interpreting  
Slope and Intercepts  
Activity Sheets

## Interpreting Slope and Intercepts

## The Hair Stylist

**Adrienne is a hairstylist at a new age salon. She pays a monthly fee to rent a station at the salon. The graph below represents the profit she makes each month based on the number of haircuts she performs.**



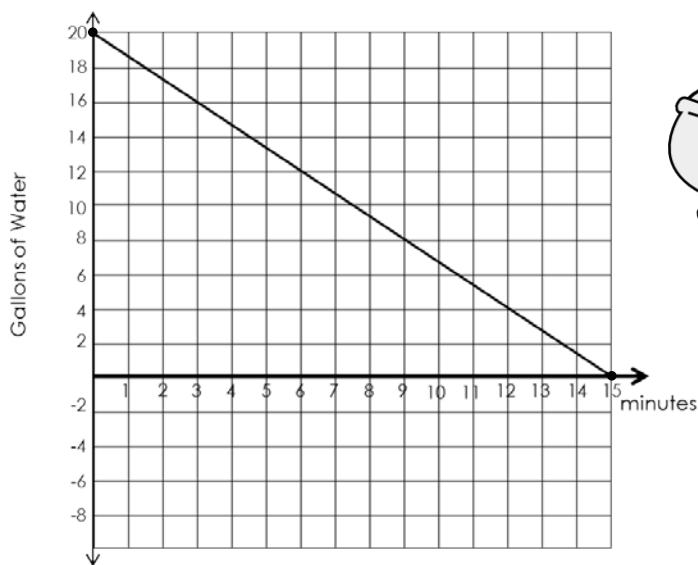
Use the graph to answer the questions below.

- 1) If Adrienne does 21 hair cuts, what is her profit? \_\_\_\_\_
- 2) What is the slope of the line? \_\_\_\_\_
- 3) What do the numbers in the slope represent in the context of the problem?  
\_\_\_\_\_
- 4) What is the x-intercept? (\_\_\_\_\_, \_\_\_\_\_)
- 5) What do the values (x, y) of the x-intercept mean in the context of the problem?  
\_\_\_\_\_
- 6) What is the y-intercept? (\_\_\_\_\_, \_\_\_\_\_)
- 7) What do the values (x, y) of the y-intercept mean in the context of the problem?  
\_\_\_\_\_

## Interpreting Slope and Intercepts

## The Bath Tub

**Billy Bob has an ancient bathtub that drains slower than the dickens. He filled up his tub and then let the water drain out to see how long it would take to drain. The graph below represents the number of gallons of water remaining in the tub and the time in minutes.**



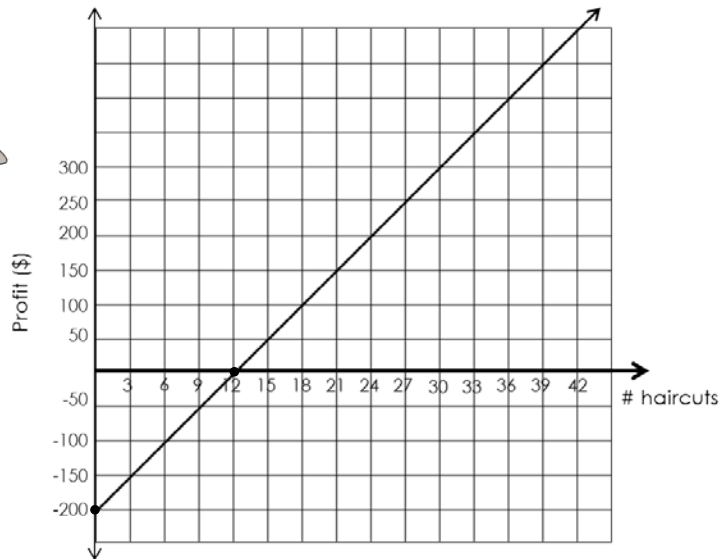
Use the graph to answer the questions below.

- How many gallons of water are in Billy Bob's tub after 6 minutes? \_\_\_\_\_
- What is the slope of the line? \_\_\_\_\_
- What do the numbers in the slope represent in the context of the problem?  
\_\_\_\_\_
- What is the x-intercept? (\_\_\_\_\_, \_\_\_\_\_)
- What do the values  $(x, y)$  of the x-intercept mean in the context of the problem?  
\_\_\_\_\_
- What is the y-intercept? (\_\_\_\_\_, \_\_\_\_\_)
- What do the values  $(x, y)$  of the y-intercept mean in the context of the problem?  
\_\_\_\_\_

# Interpreting Slope and Intercepts

## The Hair Stylist

*Adrienne is a hairstylist at a new age salon. She pays a monthly fee to rent a station at the salon. The graph below represents the profit she makes each month based on the number of haircuts she performs.*



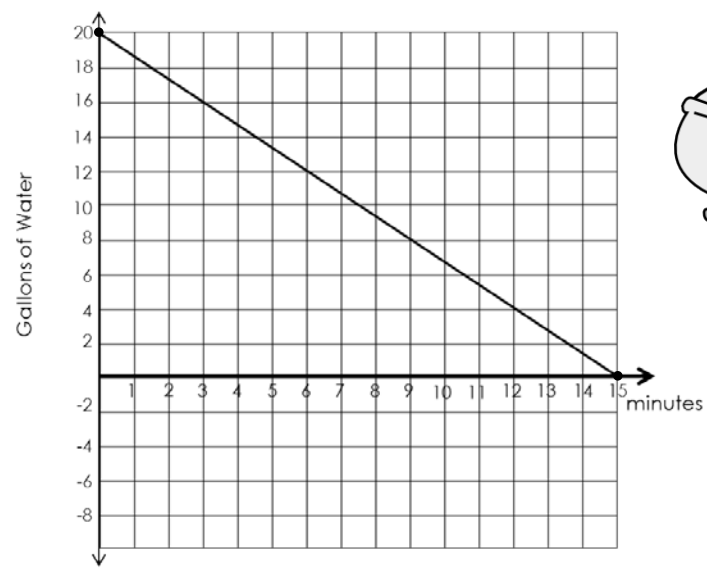
Use the graph to answer the questions below.

- 1) If Adrienne does 21 hair cuts, what is her profit? \$150
- 2) What is the slope of the line? 50/3
- 3) What do the numbers in the slope represent in the context of the problem?  
She earns \$50 for every 3 haircuts she does.
- 4) What is the x-intercept? (12, 0)
- 5) What do the values (x, y) of the x-intercept mean in the context of the problem?  
She has to do 12 hair cuts before she'll break even.
- 6) What is the y-intercept? (0, -200)
- 7) What do the values (x, y) of the y-intercept mean in the context of the problem?  
If she doesn't do any haircuts, she'll lose \$200, probably operating costs.

# Interpreting Slope and Intercepts

## The Bath Tub

**Billy Bob has an ancient bathtub that drains slower than the dickens. He filled up his tub and then let the water drain out to see how long it would take to drain. The graph below represents the number of gallons of water remaining in the tub and the time in minutes.**



Use the graph to answer the questions below.

- 1) How many gallons of water are in Billy Bob's tub after 6 minutes? 12 gallons
- 2) What is the slope of the line? 4/3
- 3) What do the numbers in the slope represent in the context of the problem?  
4 gallons drain every 3 minutes

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- 4) What is the x-intercept? (15, 0)
- 5) What do the values (x, y) of the x-intercept mean in the context of the problem?  
It will take 15 minutes to drain the tub

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- 6) What is the y-intercept? (0, 20)
- 7) What do the values (x, y) of the y-intercept mean in the context of the problem?  
There were 20 gallons of water in the tub before it started to drain.

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