Name:

Date:

Period:

Interpret slope and y intercept (word problems)

scribble space

1

Jude buys a car and starts making regular payments. The equation $r = 7245 - 201.25m$ represents the amount remaining on the loan (r) in terms of the number of months of payment (m).

- Find the slope and the y-intercept.
- What do the slope and y-intercept tell us about this scenario?

Answer:

2

Viola is learning to play the drums. During one practice session, she played along with a new song over and over in order to learn it. She wrote the equation $t = 60 - 3.5s$ to represent the number of minutes left in her practice session (t) based on the number of times she plays along with the new song (s).

- Find the slope and the y-intercept.
- What do the slope and y-intercept tell us about this scenario?

Answer:

3

A carpenter buys lumber to make picnic benches for a park. The equation $y = -40x + 200$ can be used to determine the number of feet of lumber (y) he will will have left based on the number of benches built (x).

- Find the slope and the y-intercept.
- What do the slope and y-intercept tell us about this scenario?

Answer:

4

Allie buys a new bag of beads to make bracelets for her friends. The equation $y = 250 - 25x$ represents the number of beads remaining (y) based on the number of bracelets made (x) .

- Find the slope and the y-intercept.
- What do the slope and y-intercept tell us about this scenario?

Answer:

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5

An art teacher is purchasing clay to use in an upcoming project. She measures the amount of clay she has on hand and then determines the amount of clay each student will need for the project. She writes the equation $y = 2x - 10$ to represent the amount of clay, in pounds, she needs to purchase (y) in terms of the number of students (x).
- Find the slope and the y-intercept.
- What do the slope and y-intercept tell us about this scenario?

Answer:

6

Forest Rangers estimated the weight of a grizzly bear and then estimated the amount of weight the bear will gain each day before hibernation. They use the equation $y = 3x + 550$ to represent the bear's weight in pounds (y) in terms of the number of days the bear has gained weight (x).
- Find the slope and the y-intercept.
- What do the slope and y-intercept tell us about this scenario?

Answer:

7

A group of friends is splitting the cost of a camping trip. They pay for a tank of gas and then a nightly fee for the campsite. The equation $y = 15x + 80$ represents the total cost (y) in terms of the number of days (x).
- Find the slope and the y-intercept.
- What do the slope and y-intercept tell us about this scenario?

Answer:

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