

Chapter 4 Review

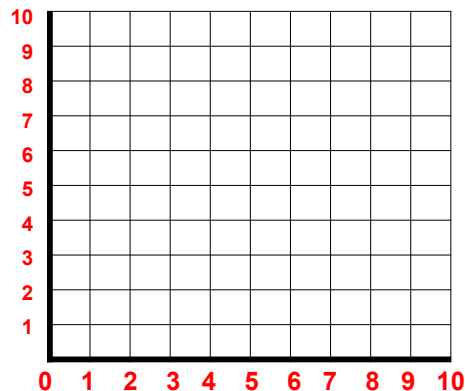
CARS After it is purchased, the value of a new car decreases \$4000 each year. After 3 years, the car is worth \$18,000.

- Write an equation that represents the value V (in dollars) of the car x years after it is purchased.
- What was the original value of the car?

APPLICATION



- 1) The cost y (in dollars) of taking a taxi x miles is $y = 2.5x + 2$.
(a) Graph the equation. (b) Interpret the y -intercept and the slope.



Translating Word Problems into Slope-Intercept Form

- For babysitting, Nicole charges a flat fee of \$3, plus \$5 per hour. Write an equation for the cost, y , after x hours of babysitting.
- A canoe rental service charges a \$20 transportation fee and \$30 dollars an hour to rent a canoe. Write an equation representing the cost, y , of renting a canoe for x hours.

Translating Word Problems into Standard Form

- 4) A 100-point test has x questions worth 2 points apiece and y questions worth 4 points apiece.

What is the total that is given? _____

What do the variables stand for:

x =_____, **y** =_____

- a. Write an equation that describes all possible numbers of questions that may be on the test.

Translating Word Problems into Standard Form

- 5) The Ramy family bought 4 sandwiches and 3 salads. They spent \$24. Let x be the cost of a sandwich and y be the cost of a salad.

What is the total that is given? _____

What do the variables stand for:

x =_____, **y** =_____

- a. Write an equation.