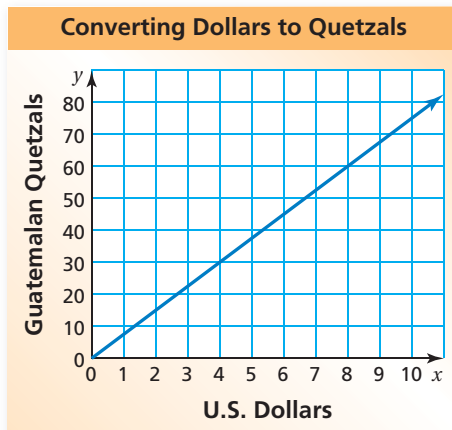


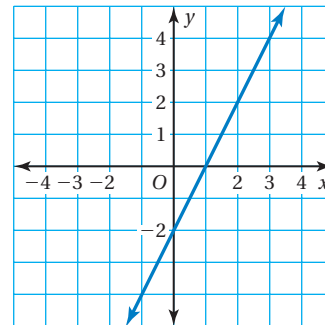
2 Standardized Test Practice

1. The graph below shows the value of United States dollars compared to Guatemalan quetzals.



What is the value of 60 quetzals?

- A. \$6
B. \$7
C. \$8
D. \$9
2. Which equation matches the line shown in the graph?
- F. $y = 2x - 2$
G. $y = 2x + 1$
H. $y = x - 2$
I. $y = x + 1$



3. A faucet releases 6 quarts of water per minute. How many gallons of water will the faucet release in one hour?
- A. 45 gal
B. 90 gal
C. 360 gal
D. 1440 gal
4. The equation $6x - 5y = 14$ is written in standard form. Which point lies on the graph of this equation?
- F. $(-4, -1)$
G. $(-2, 4)$
H. $(-1, -4)$
I. $(4, -2)$

Test-Taking Strategy
Estimate the Answer

In x days, your owner vacuums $y = 107x$ hairs from the rug. How many in 3 days?
 (A) 201 (B) 539 (C) 321 (D) 1,000,000

So, you prefer a hairless cat?

"Using **estimation** you can see that there are about 300 hairs. So, it's got to be C."

5. A system of two linear equations has no solutions. What can you conclude about the graphs of the two equations?

- A. The lines have the same slope and the same y -intercept.
- B. The lines have the same slope and different y -intercepts.
- C. The lines have different slopes and the same y -intercept.
- D. The lines have different slopes and different y -intercepts.

6. A cell phone plan costs \$10 per month plus \$0.10 for each minute used. Last month, you spent \$18.50 using this plan. This can be modeled by the equation below, where m represents the number of minutes used.

$$0.1m + 10 = 18.5$$

How many minutes did you use last month?

- F. 8.4 min
- G. 85 min
- H. 185 min
- I. 285 min

7. What is the slope of the line that passes through the points $(2, -2)$ and $(8, 1)$?

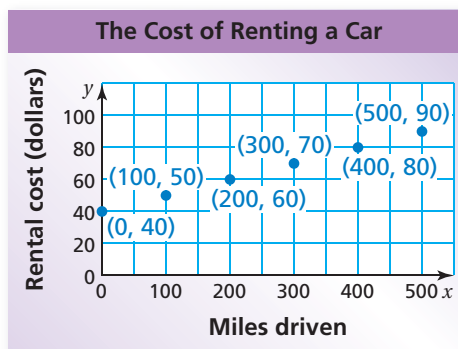


8. It costs \$40 to rent a car for one day. In addition, the rental agency charges you for each mile driven as shown in the graph.

- Think
- Solve
- Explain

Part A Determine the slope of the line joining the points on the graph.

Part B Explain what the slope represents.



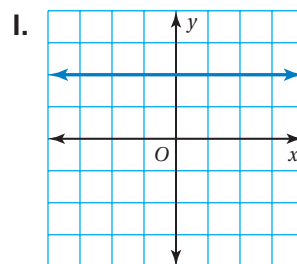
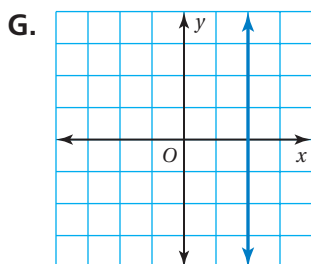
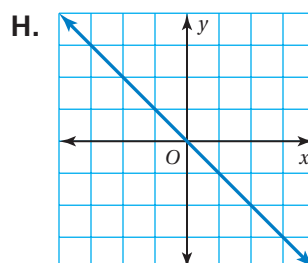
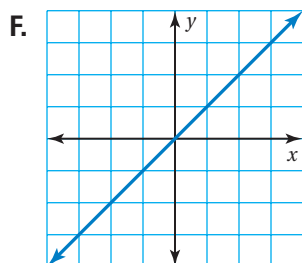
9. Which point is a solution of the system of equations shown below?

$$x + 3y = 10$$

$$x = 2y - 5$$

- A. $(1, 3)$
- B. $(3, 1)$
- C. $(55, -15)$
- D. $(-35, -15)$

10. Which line has a slope of 0?



11. Solve the formula $K = 3M - 7$ for M .

A. $M = K + 7$

C. $M = \frac{K}{3} + 7$

B. $M = \frac{K+7}{3}$

D. $M = \frac{K-7}{3}$

12. The linear equation $5x + 2y = 10$ is written in standard form. What is the slope of the graph of this equation?

F. 5

H. -2.5

G. 2.5

I. -5

13. A package of breakfast cereal is labeled "750 g." This cereal is shipped in cartons that hold 24 packages. What is the total mass, in kilograms, of the breakfast cereal in 10 cartons?



14. A line has a slope of 4 and passes through the point (a, b) . Which point must also lie on this line?

A. $(a, b + 4)$

C. $(a + 1, b + 4)$

B. $(2a, 8b)$

D. $(2a, 5b)$