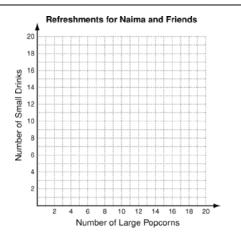
LESSON 5-2

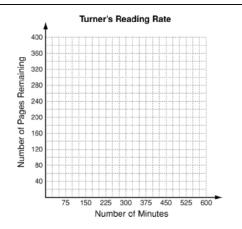
Problem Solving

Using Intercepts

Write the correct answer.

- Naima has \$40 to spend on refreshments for herself and her friends at the movie theater. The equation 5x + 2y = 40 describes the number of large popcorns x and small drinks y she can buy. Graph this function and find its intercepts.
- 2. Turner is reading a 400-page book. He reads 4 pages every 5 minutes. The number of pages Turner has left to read after x minutes is represented by the function $f(x) = 400 \frac{4}{5}x$. Graph this function and find its intercepts.





The graph shows the distance of an elevator at Chimney Rock, North Carolina, from its destination as a function of time. Use the graph to answer questions 3–6. Select the best answer.

3. What is the *x*-intercept of this function?

A 0

C 258

B 30

D 300

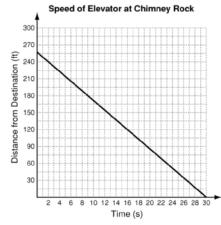
- 4. What does the *x*-intercept represent?
 - F the total distance the elevator travels
 - G the number of seconds that have passed for any given distance
 - H the number of seconds it takes the elevator to reach its destination
 - J the distance that the elevator has traveled at any given time
- 5. What is the *y*-intercept for this function?

A 0

C 258

B 30

D 300



- 6. What does the *y*-intercept represent?
 - F the total distance the elevator travels
 - G the number of seconds that have passed for any given distance
 - H the number of seconds it takes the elevator to reach its destination
 - J the distance that the elevator has traveled at any given time