

Lesson 11 Practice Problems

1. For each equation, find y when x = -3. Then find x when y = 2

a. y = 6x + 8

b.
$$y = \frac{2}{3}x$$

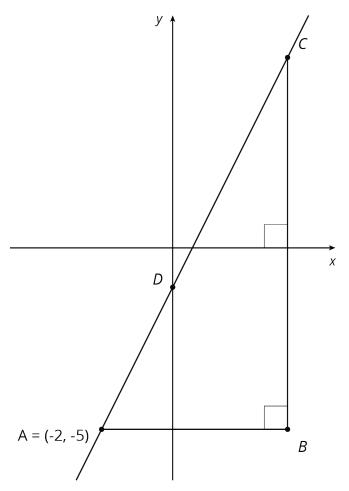
c.
$$y = -x + 5$$

d.
$$y = \frac{3}{4}x - 2\frac{1}{2}$$

e.
$$y = 1.5x + 11$$

2. True or false: The points (6, 13), (21, 33), and (99, 137) all lie on the same line. The equation of the line is $y = \frac{4}{3}x + 5$. Explain or show your reasoning.

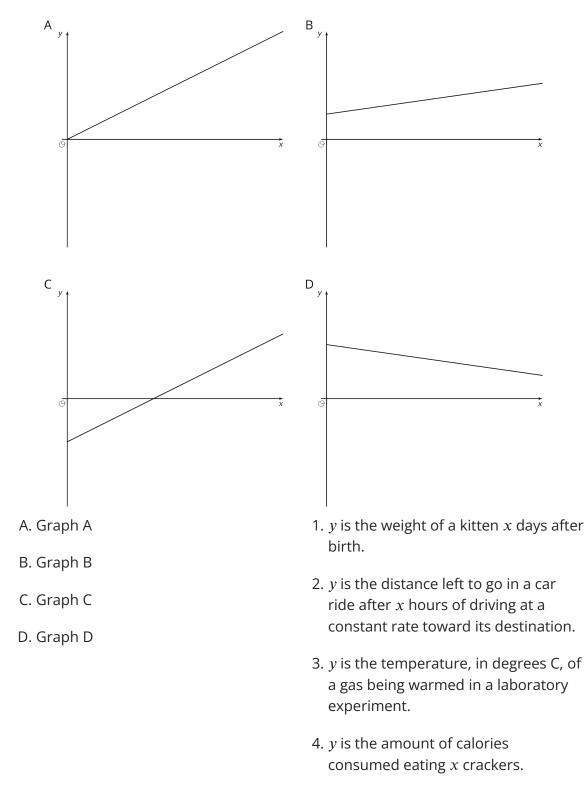
- 3. Here is a linear equation: $y = \frac{1}{4}x + \frac{5}{4}$
 - a. Are (1, 1.5) and (12, 4) solutions to the equation? Explain or show your reasoning.
 - b. Find the *x*-intercept of the graph of the equation. Explain or show your reasoning.
- 4. Find the coordinates of *B*, *C*, and *D* given that AB = 5 and BC = 10.



(From Unit 2, Lesson 16.)



5. Match each graph of a linear relationship to a situation that most reasonably reflects its context.



(From Unit 5, Lesson 8.)