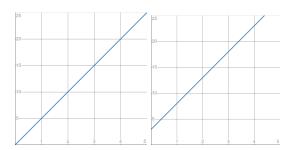
- 1. The graph of a proportional relationship is a straight line through the origin.
- Sample answer: Every proportional relationship has a constant of proportionality *k* and can be represented by the equation y = kx. So, when x is 0, y = k · 0 = 0.
- 3. Sample answer: There is not enough information to determine whether Makayla is graphing a proportional relationship. The graph of a proportional relationship should contain points that form a straight line through the origin. There is no way to tell if Makayla will continue to plot points on the same line.

4.



- Martin's graph; The graph is a straight line through the origin.
 Isabelle's graph is a straight line, but it doesn't pass through the origin.
- Sample answer: On Martin's graph, (3,15) means Martin pays \$15 to play 3 games.

8. a. Proportional; the graph is a straight line that passes through the origin.

b. NOT proportional; the graph passes through the origin but is not a straight line.c. NOT proportional; the graph is a straight line but does not pass

9. Yes; 100 boxes

through the origin.

- 10. No; there is no constant of proportionality.
- 11. a. The baker uses 0 cups of flour to make 0 cookies.b. Sample answer: The point (1,18) represents the unit rate of 18 cookies per cup of flour. The constant of proportionality is 18.
- 12. a. 0.2
 - b. Sample answer: (1, 0.2) c. y = 0.2x
- 13. a. Bank A; Bank A exchanges \$1.00 for 5.1 kroner, and Bank B exchanges \$1.00 for 5 kroner.
 b. 170 more kroner
- 14. No. The graph of a proportional relationship is a straight line through the origin. The graph shown passes through the origin, but it is not a straight line.
- 15. B, D, E

7. y = 5x