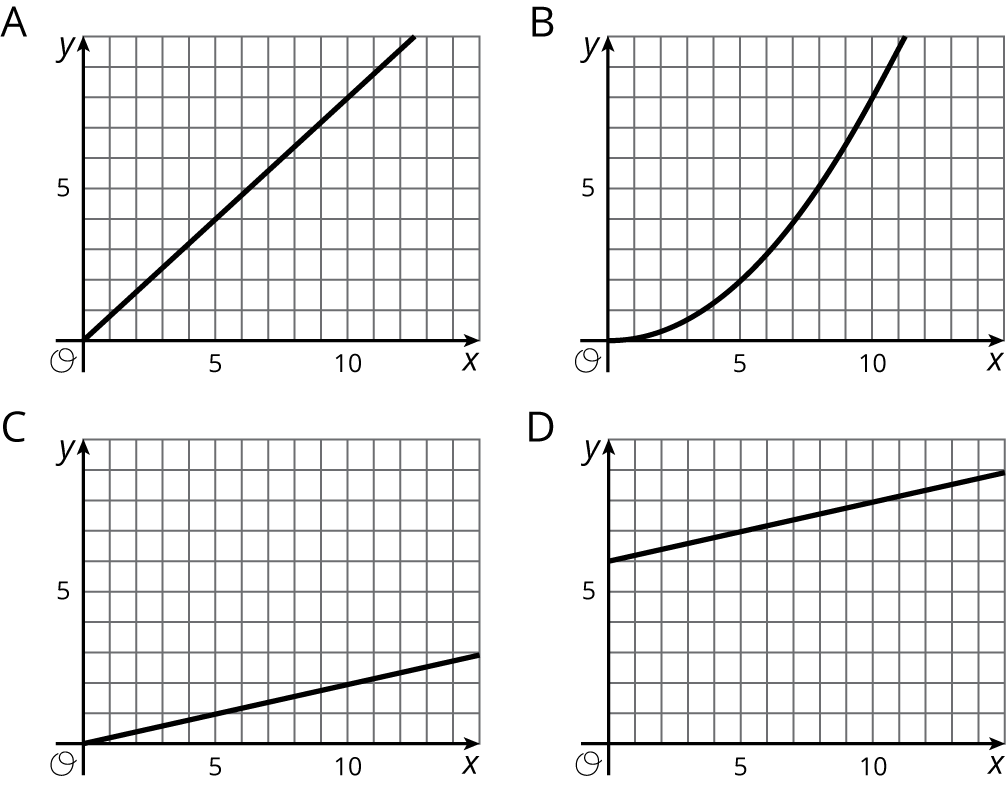
## Unit 2 Lesson 10 Cumulative Practice Problems

1. Which graphs could represent a proportional relationship?

* 
  1. A
  2. B
  3. C
  4. D

1. A lemonade recipe calls for cup of lemon juice for every cup of water.
   1. Use the table to answer these questions.
      1. What does represent?
      2. What does represent?
      3. Is there a proportional relationship between and ?
   2. Plot the pairs in the table in a coordinate plane.

|  |  |
| --- | --- |
|  |  |
| * 1 |  |
| * 2 |  |
| * 3 |  |
| * 4 | * 1 |

1. Select **all** the pieces of information that would tell you and have a proportional relationship. Let represent the distance in meters between a rock and a turtle's current position and represent the time in minutes the turtle has been moving.
   1. After 4 minutes, the turtle has walked 12 feet away from the rock.
   2. The turtle walks for a bit, then stops for a minute before walking again.
   3. The turtle walks away from the rock at a constant rate.

* (From Unit 2, Lesson 9.)

1. Decide whether each table could represent a proportional relationship. If the relationship could be proportional, what would be the constant of proportionality?
   1. The sizes you can print a photo.

|  |  |
| --- | --- |
| * + width of photo (inches) | * + height of photo (inches) |
| * + 2 | * + 3 |
| * + 4 | * + 6 |
| * + 5 | * + 7 |
| * + 8 | * + 10 |

* 1. The distance from which a lighthouse is visible.

|  |  |
| --- | --- |
| * + height of a lighthouse (feet) | * + distance it can be seen (miles) |
| * + 20 | * + 6 |
| * + 45 | * + 9 |
| * + 70 | * + 11 |
| * + 95 | * + 13 |

* (From Unit 2, Lesson 7.)



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