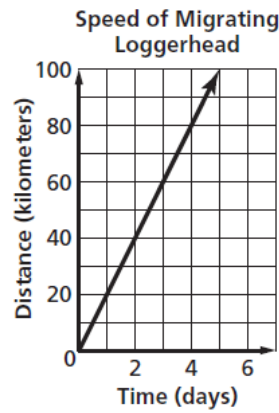


50 The graph shows the average speed of a loggerhead turtle, migrating at an average rate of 20 kilometers per day. Which is true about the graph?



50 _____

- A The number of days is the independent variable because the time it takes the loggerhead to migrate is not dependent on the distance it travels.
- B The distance the loggerhead turtle travels is the independent variable because distance is not dependent on how many days the turtle has been swimming.
- C The number of days it takes the loggerhead to migrate is the dependent variable because the turtle could swim faster or slower at times.
- D Both distance and time are dependent variables because sea conditions affect both the number of days it takes to migrate and the speed at which the loggerhead migrates.
- E Both distance and time are dependent variables because time and distance are interrelated.

51 Which situation *cannot* be represented by a linear function?

- A the cost of a breakfast buffet at \$5.65 per person
- B the distance a seahorse travels at one foot per minute
- C the height of a plant that grows a quarter-inch per week
- D the amount a family spends on groceries each week for a year
- E the population of a county with an annual growth rate of 2.3%

51 _____

52 What is the solution of the system of equations shown below?

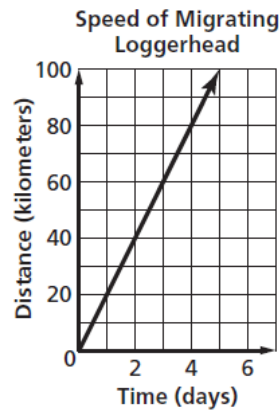
$$y = 2x + 5$$

$$3x - y = -4$$

- A (-1, -7)
- B (-1, 7)
- C (1, -7)
- D (1, 7)
- E (7, 1)

52 _____

50 The graph shows the average speed of a loggerhead turtle, migrating at an average rate of 20 kilometers per day. Which is true about the graph? **I.A.1.**



50 **A**

- A** The number of days is the independent variable because the time it takes the loggerhead to migrate is not dependent on the distance it travels.
- B** The distance the loggerhead turtle travels is the independent variable because distance is not dependent on how many days the turtle has been swimming.
- C** The number of days it takes the loggerhead to migrate is the dependent variable because the turtle could swim faster or slower at times.
- D** Both distance and time are dependent variables because sea conditions affect both the number of days it takes to migrate and the speed at which the loggerhead migrates.
- E** Both distance and time are dependent variables because time and distance are interrelated.

51 Which situation *cannot* be represented by a linear function? **II.A.1.**

51 **E**

- A** the cost of a breakfast buffet at \$5.65 per person
- B** the distance a seahorse travels at one foot per minute
- C** the height of a plant that grows a quarter-inch per week
- D** the amount a family spends on groceries each week for a year
- E** the population of a county with an annual growth rate of 2.3%

52 What is the solution of the system of equations shown below? **II.D.2.**

52 **D**

$$y = 2x + 5$$

$$3x - y = -4$$

- A** $(-1, -7)$
- B** $(-1, 7)$
- C** $(1, -7)$
- D** $(1, 7)$
- E** $(7, 1)$