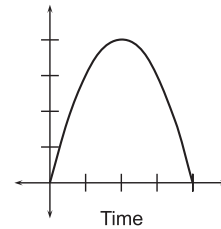


Session 2, Multiple-choice Questions

Use the graph to answer question 13.

13. Which of the following could be shown by the graph?

- A. the height of a candle as it burns over time
- B. the height of a ball thrown straight upward over time
- C. the distance covered by a car traveling at a constant speed over time
- D. the height of water in a tank being drained at a constant rate over time



*Reporting Category/Substrand for Item 13: **Patterns, Relations, and Functions/Patterns and Functions (p. 145)***

14. Which of the following best describes the meaning of π ?

- A. the measurement of the circumference of a circle
- B. the measurement of the diameter of a circle
- C. the ratio of the circumference of a circle to its diameter
- D. the ratio of the area of a circle to its circumference

*Reporting Category/Substrand for Item 14: **Geometry and Measurement/Geometry (p. 146)***

15. Luis is going to toss two coins. What is the probability that he will toss one head and one tail?

- A. $\frac{1}{4}$
- B. $\frac{1}{3}$
- C. $\frac{1}{2}$
- D. $\frac{3}{4}$

*Reporting Category/Substrand for Item 15: **Statistics and Probability/Probability (p. 147)***

16. The following equation shows the relationship between a distance traveled (d), the time traveled (t), and the rate (r):

$$\frac{d}{t} = r$$

If the time t increases and the distance d remains the same, what happens to the rate r ?

- A. It increases.
- B. It decreases.
- C. It remains the same.
- D. There is not enough information given to tell.

*Reporting Category/Substrand for Item 16: **Patterns, Relations, and Functions/Algebra** (p. 145)*