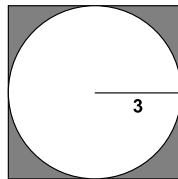


25. What is the area of the shaded region in the figure below? (Use 3.14 for π .)

- A. 5.15 sq. units
- B. 17.16 sq. units
- C. 7.74 sq. units
- D. 21.72 sq. units



Reporting Category/Substrand for Item 25: **Geometry and Measurement/Geometry (p. 144)**

Use the following table to answer question 26.

Lowest Recorded Temperatures

| | |
|----------|-----------------------|
| Boston | -12°F |
| Hartford | -26°F |
| Mobile | 3°F |

26. Which lists the cities in order from the one with the lowest recorded temperature to the one with the highest?
- A. Boston, Hartford, Mobile
 - B. Hartford, Boston, Mobile
 - C. Mobile, Boston, Hartford
 - D. Mobile, Hartford, Boston

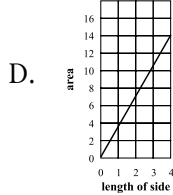
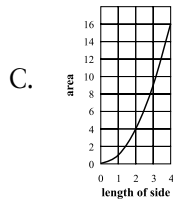
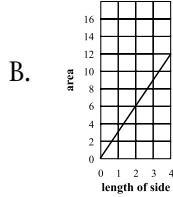
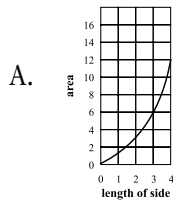
Reporting Category/Substrand for Item 26: **Number Sense/Number Systems and Number Theory (p. 142)**

Mathematics, Grade 8

27. The formula for the area, A , of a square is:

$$A = s^2, \text{ where } s \text{ is the length of the side of the square.}$$

Which graph shows the relationship between the length of one side of a square and its area?



Reporting Category/Substrand for Item 27: *Patterns, Relations, and Functions/Algebra* (p. 143)

Mathematics, Grade 8

28. The diagonal of a square is 25 units long. Which is the approximate length of a side of the square?
- A. 18 units
 - B. 15 units
 - C. 5 units
 - D. 13 units