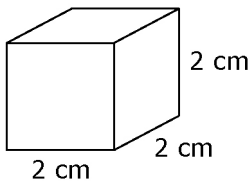


Chapter 3 Test

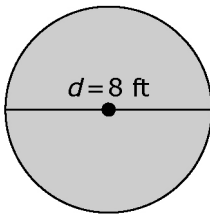
For #1 to #6, select the best answer.

1. What is the surface area of a cube with side length 2 cm?



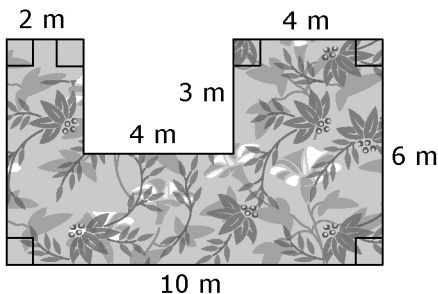
- A** 8 cm^2 **B** 16 cm^2
C 24 cm^2 **D** 48 cm^2

2. What is the approximate area of a circle with a diameter of 8 ft?



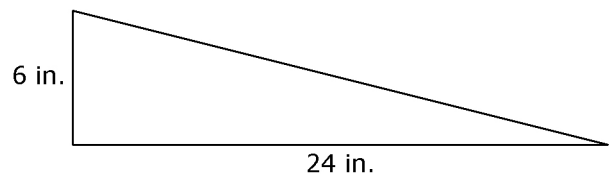
- A** 13 ft^2 **B** 25 ft^2
C 50 ft^2 **D** 201 ft^2

3. What is the area of the garden shown?



- A** 42 m^2 **B** 48 m^2
C 52 m^2 **D** 60 m^2

4. What is the area of the triangle shown?



- A** $\frac{1}{2} \text{ ft}^2$ **B** 1 ft^2
C $1\frac{1}{2} \text{ ft}^2$ **D** 2 ft^2

5. The image of an auk measures 3 in. Suppose the image were enlarged to triple its length and triple its width. What would the new area be?



- A** 15 in.^2 **B** 75 in.^2
C 60 in.^2 **D** 135 in.^2

6. What is a reasonable estimate for the area of a room that measures 21 ft by 47 ft?

- A** 80 ft^2 **B** 100 ft^2
C 800 ft^2 **D** 1000 ft^2



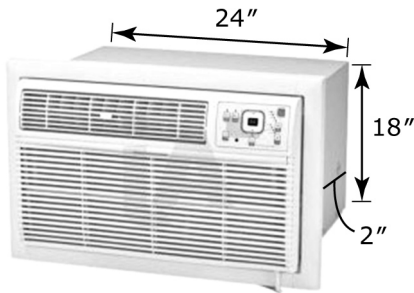
Name: _____

Date: _____

BLM 3-13

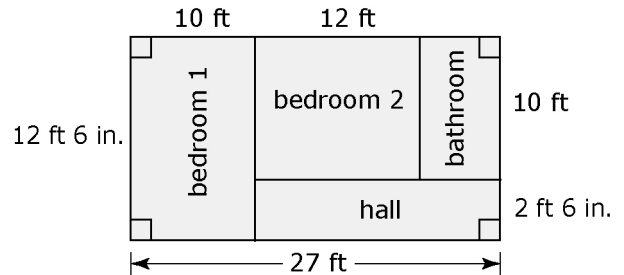
(continued)

- 7.** The air conditioner shown fits in the opening of a window. The air conditioner measures 24" by 18". The lip surrounding the unit is 2" wide. Calculate the area of the window that the unit covers.



- 8.** A water tank in the shape of a cylinder is 10 m long and 2.4 m in diameter. How much sheet metal was used to make it?
- a)** Draw and label a sketch of the cylinder.
 - b)** Calculate the surface area of the cylinder. Express the answer to one decimal place.

- 9.** The diagram shows part of the floor plan of a house.



- a)** The two bedrooms will have carpet at a cost of \$4 per square foot. How much will the carpet cost?
- b)** The hall will have hardwood flooring at a cost of \$3.50 per square foot. How much will the flooring cost?
- c)** The bathroom will have linoleum at a cost of \$2.50 per square foot. How much will the linoleum cost?
- d)** Calculate the total cost of flooring.

