

## Module Test

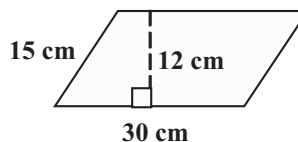
## B

## Module 13

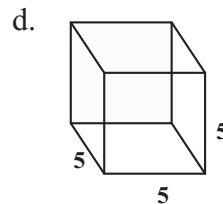
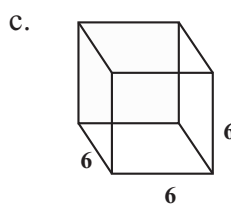
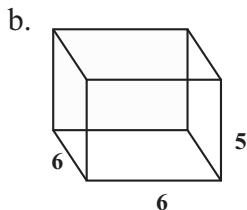
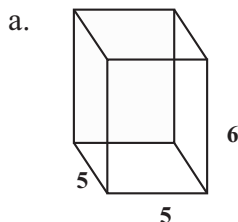


Circle the correct answer for each problem.

1. What is the area of the parallelogram?



- a.  $450 \text{ cm}^2$       b.  $360 \text{ cm}^2$       c.  $225 \text{ cm}^2$       d.  $180 \text{ cm}^2$
2. A circle has an area of 5,024 square inches. Which is closest to the length of the diameter of the circle?
- a. 1,600 in.      b. 800 in.      c. 80 in.      d. 40 in.
3. The length of a rectangular field is twice its width. What is the perimeter of the field if the width of the field is 70 meters?
- a. 420 m      b. 350 m      c. 210 m      d. 105 m
4. To the nearest inch, what is the circumference of a circle whose radius is 3.5 inches?
- a. 11 in.      b. 22 in.      c. 38 in.      d. 44 in.
5. Which prism has a surface area of 150 square units?

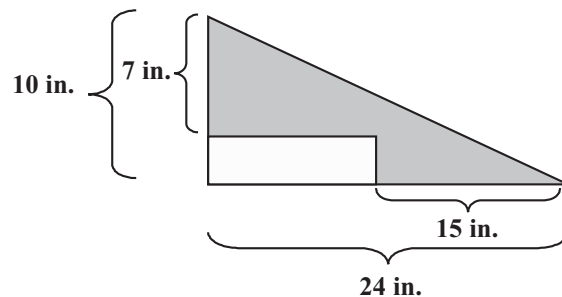


Fill in the blanks with one of the following words:

square   cubic   triangle   trapezoid   height   slant height   lateral   surface

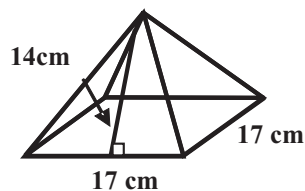
6. To find the area of a \_\_\_\_\_, use the formula  $A = \frac{1}{2}bh$ .
7. It is necessary to find the area of a circle when finding the \_\_\_\_\_ area of a cone.
8. The \_\_\_\_\_ of a pyramid is the length of the segment joining the vertex of the pyramid to an edge of the base of the pyramid at a right angle.
9. For a plane figure whose dimensions are given in millimeters, the surface area of the figure is given in \_\_\_\_\_ millimeters.

10. Find the area of the shaded region.

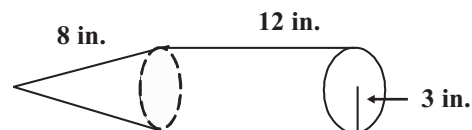


Find the surface area.

- 11.

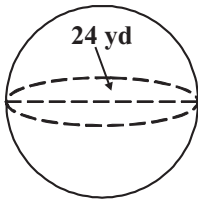


- 12.

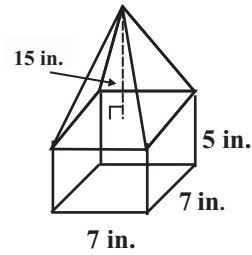


Find the volume.

13.



14.



15. The perimeter of a rectangle must be 22 feet. What whole-number dimensions will give the greatest area? Explain how you found your answer.

16. Show how to estimate the area of the shape at right.  
Each  $\square$  is  $1 \text{ km}^2$ .

