

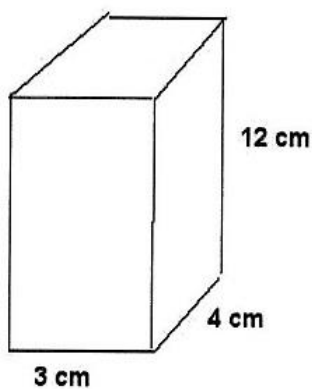
Mathematics

Power Standard 7:11 and 7:12

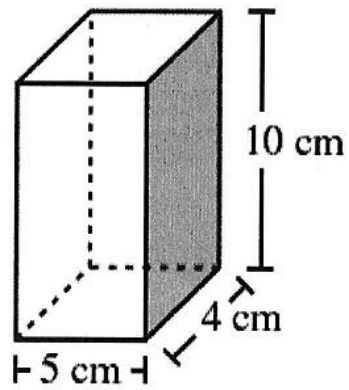
Summative Test

Name \_\_\_\_\_ Hour \_\_\_\_\_

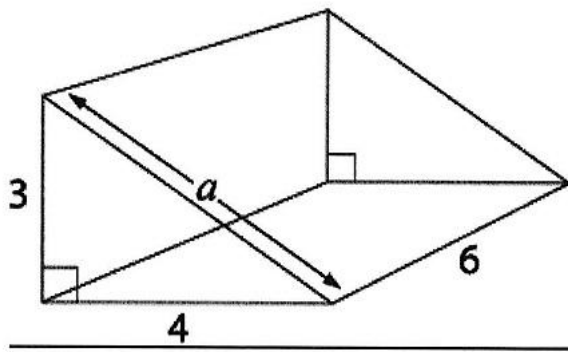
1. Which of the following correctly describes the relationship between the radius and diameter of a circle?
  - A. The diameter is half the radius.
  - B. It takes two radii to equal a diameter.
  - C. The radius is twice the diameter.
  - D. It takes two diameters to equal one radius.
  
2. A mysterious crop circle was found in England. It was created in a single night by an unknown source and had a diameter of 250 ft. What is the circumference of the circle?
  
  
  
  
  
  
  
  
  
  
3. A CD has a diameter of 12 centimeters. The hole in the middle of the CD has a diameter of 1.5 centimeters. Find the area of one side of the CD to the nearest tenth. Use 3.143 for  $\pi$ .
  
  
  
  
  
  
  
  
  
  
4. Find the surface area of the rectangular prism below.



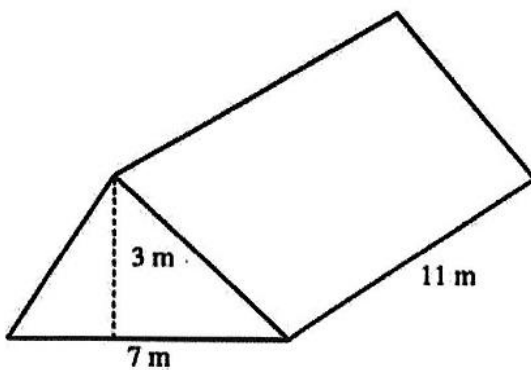
5. Find the volume of the rectangular prism below.



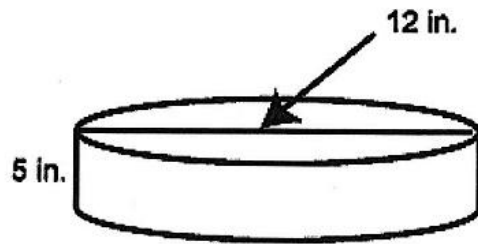
6. Find the surface area of the triangular prism below. (Hint: the length of  $a$  is 5 units.)



7. Find the volume of the right triangular prism below.



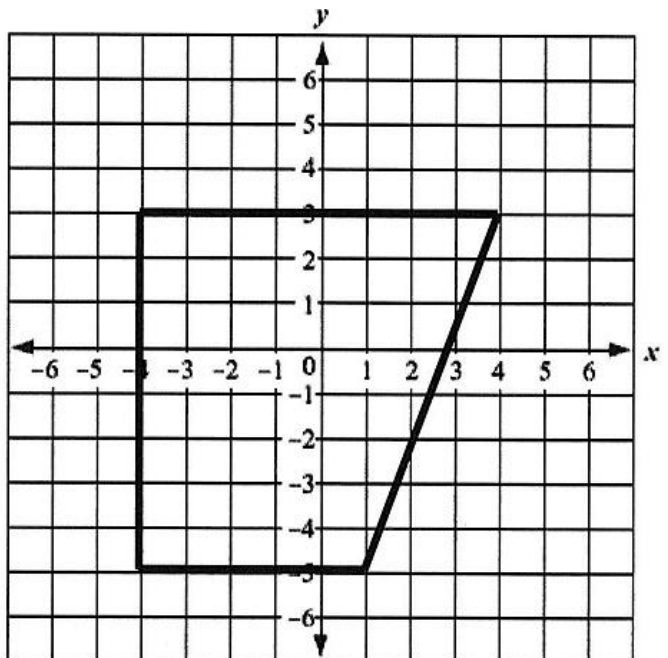
8. Find the surface area of the cylinder below. Use 3.14 for  $\pi$ . Round to the nearest tenth, if necessary.



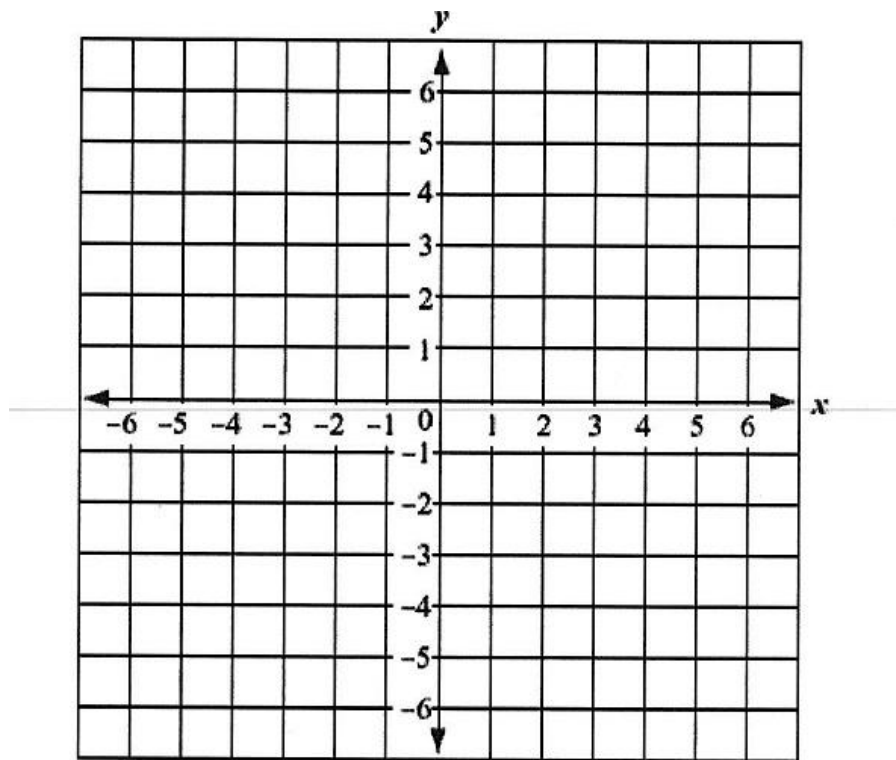
9. A graduated cylinder has a diameter of 18 millimeters and is 250 millimeters tall. What is the volume of the cylinder? Use 3.14 for  $\pi$  and round to the nearest tenth, if necessary.

10. The following graphed figure is:

- A. square
- B. trapezoid
- C. rhombus
- D. rectangle



11. A certain geometric figure has vertices with the coordinates  $(1, -1)$ ,  $(2, -3)$ ,  $(-4, -3)$ , and  $(-3, -1)$ . On the grid below, draw this geometric figure. What is the name of the geometric figure? Justify your answer.



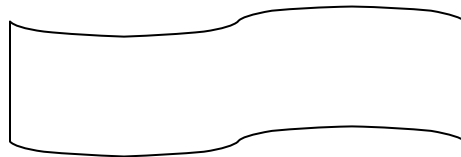
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12. The following figure has how many lines of symmetry?



- A. 0
- B. 1
- C. 2
- D. 3

