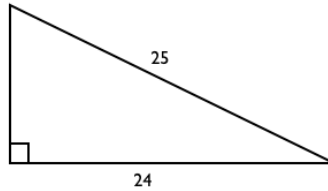




5.9 Geometry: Review

Here is a mix of problems from the Geometry unit. Try solving these problems after you've completed the worksheets on the individual units/lessons.

- 1 Find the perimeter of this right triangle.



- 2 The area of a right triangle is 6. If the height is 3, what is the length of the hypotenuse?
- (a) 7 feet
 - (b) 6 feet
 - (c) 4 feet
 - (d) 5 feet

3 Find the volume of the following 3D figures. Round to the nearest whole number.

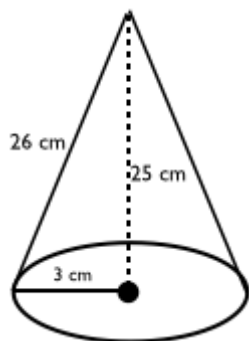


Figure 5.9.1

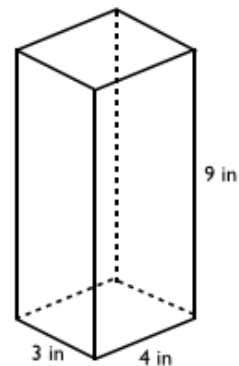


Figure 5.9.2

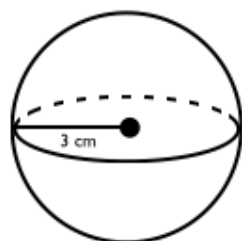


Figure 5.9.3

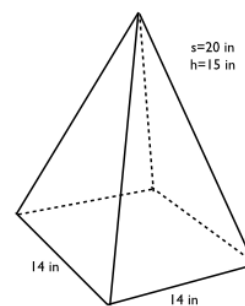


Figure 5.9.4

4 How many minutes have passed when the hour hand of a clock has moved 120 degrees from the noon position?

- (a) 60
- (b) 120
- (c) 240
- (d) 360



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- 5 The volume of a cone is 24π cubic inches. If the height is 8 inches, what is the length of the diameter of the base in inches?
- (a) 10
 - (b) 6
 - (c) 3
 - (d) 4
- 6 A table has an area of 44 square feet and a perimeter of 30 feet. Which of the following are the dimensions of the table?
- (a) 2 feet x 11 feet
 - (b) 4 feet x 11 feet
 - (c) 8 feet x 4 feet
 - (d) 2 feet x 22 feet
- 7 Kate wants to build a fence around her garden. If her garden is 300 square feet and one side of her garden is 12 feet long, how much fencing should she buy?
- (a) 37 feet
 - (b) 49 feet
 - (c) 74 feet
 - (d) 300 feet
- 8 A sphere has a surface area of 36π . What is the volume of this sphere?
- (a) 12π
 - (b) 36π
 - (c) 9π
 - (d) 3π
- 9 A pyramid has a square as its base with perimeter of 42 inches. If the height of the pyramid is 20 inches and the slant height is 21 inches, what is the area of one of the pyramid's triangular sides in square inches?
- (a) 125.7
 - (b) 150.6
 - (c) 110.3
 - (d) 140.3