

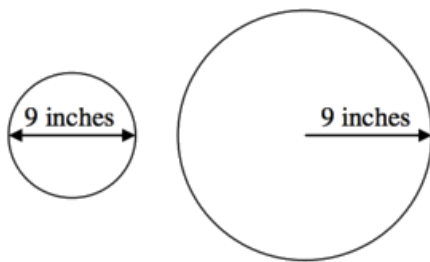
### Math 7 ACC Unit 6 Study Guide

**Directions: Show all work and include all units to receive full credit. Use 3.14 for  $\pi$  (pi), and round to the nearest hundredth if necessary.**

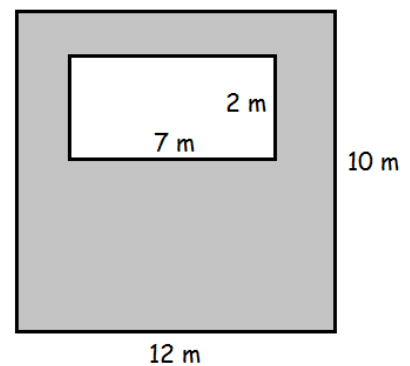
1.) Answer these questions about 4 different circles.

- a. What is the circumference of a circle that has a diameter of 20 feet?
- b. What is the circumference of a circle that has a radius of 5 cm?
- c. A circle has a circumference of 10 feet. What is the diameter?
- d. A circle has a circumference of 63 feet. What is the radius?

2.) Two pizza sizes are shown here. How many more square inches of pizza are in the larger pizza?

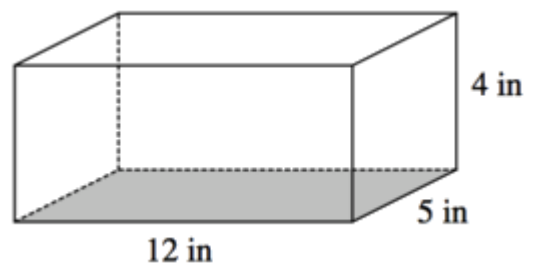


3.) Calculate the area of the shaded region. Show your work.



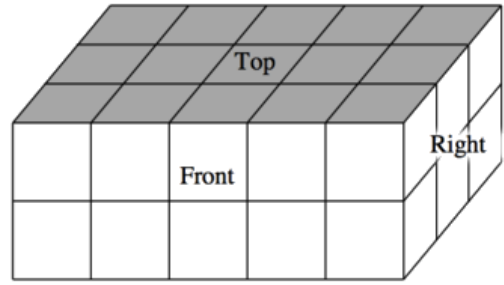
4.) A shoebox is shown here.

- a. What is the area of the shaded region along the bottom of the box?
- b. What is the volume of the box?



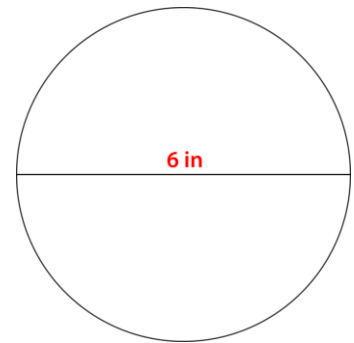
5.) The rectangular solid below is made of cubic centimeters.

- a. What is the area of the shaded top base?
- b. What is the volume of the entire solid?
- c. What is the surface area of all 6 faces combined?

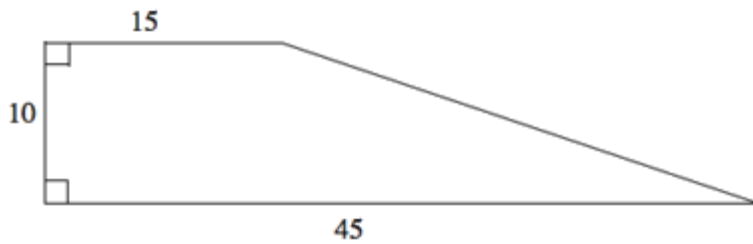


6.) Consider the circle shown.

- a. What is the length of the radius?
- b. What is the length of the diameter?
- c. What is the circumference?
- d. What is the area?



7.) Calculate the area of the shape below.



8.) Calculate the volume of the non-rectangular prism below.

