

Circumference and Area

Write down the formula for each problem, fill in the numbers that you know and solve.

1. Find the diameter of a circle if the circumference is 8cm.

2. A circle is cut out of a piece of wood that is 10 in. square. The scraps are thrown away.

A. Find the area of the circle.

B. How many square inches of scrap were thrown away?

3. The largest living thing on earth is a California sequoia tree named the General Sherman. The circumference of its trunk is about 82 ft.

A. Find the diameter.

B. Find the area.

4. A revolving water sprinkler sprays water in all directions to a distance of 25 ft. What area does it cover?

5. Pizza Mind Pizza sells a large pizza with a diameter of 14 in. and a medium pizza with a diameter of 11 in. Find the following:

A. The area of the large pizza.

B. The area of the medium pizza.

C. How much larger is the large pizza?

6. Nick plans to have a model train run a circle around a tree in his yard. How many feet of track will he need if the diameter of the circle is 9.5 ft?

7. A record has a radius of 15 cm. The label has a radius of 6 cm. Find the following:

A. The area of the record (including the label.)

B. The area of the label.

C. The area of the record that is not covered by the label.