

Lesson 5 ~ Area of a Circle

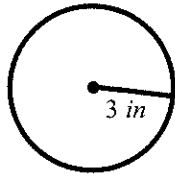
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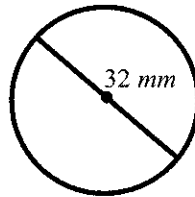
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Find the area of each circle. Use 3.14 for π .

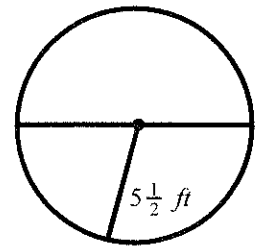
1.



2.



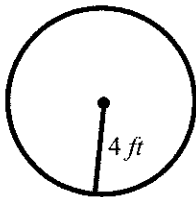
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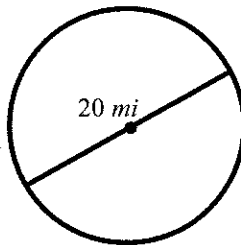
4. The radius of a circular placemat is 16 inches. Find the area of the placemat.
5. The diameter of a small pizza is 8 inches. What is the area of the pizza?
6. A radio station can be heard in all directions up to a 50 mile radius. Approximately how many square miles can the radio station be heard?

Calculate the exact area of each circle.

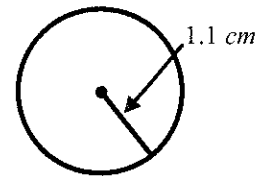
7.



8.



9.



10. A circular disc has a radius of 10 *mm*. What is the exact area of the disc?
11. Find the exact area of the circle with a circumference of 8π yards.
12. Jon Marc is ordering bark dust for two clients. Each client has a circular flower bed. Jon Marc knows the radius of one flower bed is 6.5 feet and the diameter of the other is 30 feet.
 - a. Find the area of each flower bed. Use 3.14 for π .
 - b. How many square feet of bark dust should Jon Marc order?
13. Roberto is programming a milling machine to cut a hole with a 6 *mm* diameter. Roberto must enter the exact area of the hole in to the computer program. Find the exact area of the hole.
14. The circumference of the circle at the center of a basketball court is 37.68 feet. Find the area of the circle at center court. Use 3.14 for π .