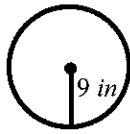
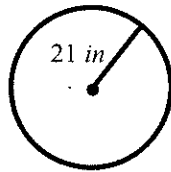


Lesson 8 ~ Circle Similarity

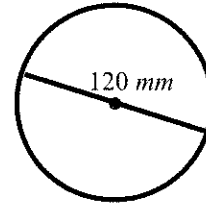
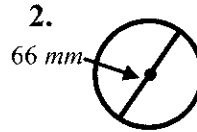
Name _____ Period _____ Date _____

Write a ratio comparing the radii of each pair of circles. Write the ratio in simplest form.

1.



2.



3. The circumference of $\odot A$ is 24π ft. The circumference of $\odot B$ is 4π ft. Write a ratio comparing the radii of the circles.
4. Two circles each have a diameter of 33 meters. What is the ratio of their circumferences?
5. The diameter of one circle is 10 cm. The diameter of another circle is 7 cm.
 - a. Write a ratio, in simplest form, comparing the radii.
 - b. Write a ratio, in simplest form, comparing the areas.

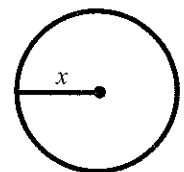
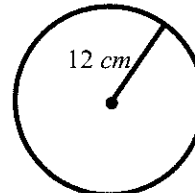
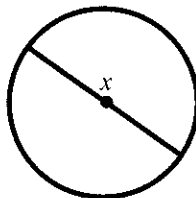
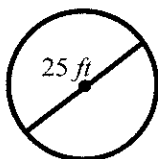
Use a proportion to find the missing measure. Use 3.14 for π .

6. $C = 78.5$ square feet

$C = 706.5$ square feet

7. $C = 75.36$ cm

$C = 50.24$ cm



8. Two circles have a scale factor of 3 : 8. The circumference of the large circle is 64 feet. Find the circumference of the small circle.
9. Two circles have a scale factor of 4 : 5. If the circumference of the small circle is 60 meters, find the circumference of the large circle.
10. One circle is 3 times as large as another. The circumference of the small circle is 15.8 feet. Find the circumference of the large circle.