

Circumference and Area of Circles - 101

Practice A

Fill in each blank with the correct word from the word bank below.

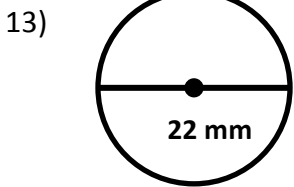
1. The _____ is a straight line that goes all the way across a circle through its center.
2. To find the diameter, a radius must be _____.
3. The _____ is the distance around a circle.
4. In the number 18.394, the number three is in the _____ place.
5. $\pi \times r^2 =$ the formula to find the _____ of a circle.
6. A straight line from the center of a circle to any side is the _____.
7. _____ is a formula used to find the circumference of a circle.
8. _____ is a constant used to help find the circumference and area of circles.

hundredths	circle	π	diameter	area	tenths
circumference	$\pi \times d$	radius	half	volume	doubled

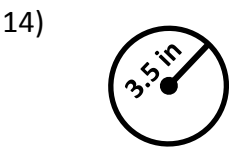
Round the following decimals to the nearest tenth, hundredth, and thousandth.

- 9) 0.4281 _____, _____, _____
tenths hundredths thousandths
- 10) 3.1415 _____, _____, _____
tenths hundredths thousandths
- 11) 5.5757 _____, _____, _____
tenths hundredths thousandths
- 12) 9.9862 _____, _____, _____
tenths hundredths thousandths

Answer the following questions. Label answers.



radius = _____



diameter = _____

- 15) Brittney bought a circular rug with a radius of 14.45 feet for her coffee shop floor. If the floor is 29 ft across, is there enough room for the rug? Explain.
- _____
- _____
- _____

Practice B

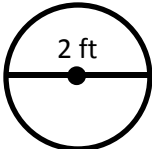
Circumference and
Area of Circles

$$C = \pi d \text{ or } C = 2\pi r$$
$$A = \pi r^2$$



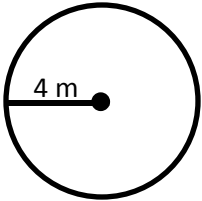
Find the circumference and area of each circle. Use 3.14 for π . Round all answers to the nearest tenth, and label all answers.

1.



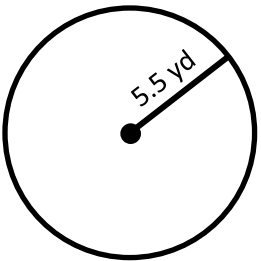
$C \approx$ _____
 $A \approx$ _____

2.



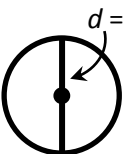
$C \approx$ _____
 $A \approx$ _____

3.



$C \approx$ _____
 $A \approx$ _____

4.



$C \approx$ _____
 $A \approx$ _____

Use the given information to find the circumference and area. Use 3.14 for π . Round all answers to the nearest tenth, and label all answers.

- 5) $r = 3$ cm

$C \approx$ _____
 $A \approx$ _____
- 6) $d = 9$ km

$C \approx$ _____
 $A \approx$ _____
- 7) $d = 21$ in

$C \approx$ _____
 $A \approx$ _____
- 8) $r = 15.2$ ft

$C \approx$ _____
 $A \approx$ _____
- 9) $d = 4.8$ mm

$C \approx$ _____
 $A \approx$ _____
- 10) $d = 44$ yd

$C \approx$ _____
 $A \approx$ _____

11) The world’s largest cookie was made in Flat Rock, North Carolina in 2013. It weighed 20 tons and had a diameter of 102 feet. What was the circumference and area of the cookie?

$C =$ _____

$A =$ _____