## Circles Answer Key

1. Line segment $A B$ is called $a / a n$ $\qquad$

a. arc
b. sector
c. chord
d. diameter
2. Kay drew a point inside a circle the same distance from any point on the circle. What part of the circle did she draw?
a. radius
b. diameter
c. center
d. line
3. If the radius of the circle below is 5 inches, what is the diameter?

a. 5 inches
b. 10 inches
c. 25 inches
d. 2 inches
4. What is the approximate circumference of the circle if the radius is 6 ?

a. 38
b. 16
c. 94
d. 57
5. Line $A B$ is 14 inches long. What is the approximate area of this circle?

a. 42 square inches
b. 615 square inches
c. 160 square inches
d. 154 square inches
6. The radius of a circle is 8 centimeters ( cm ). What is the approximate circumference of the circle? (Use $\pi=3.14$ )
a. 16 cm
b. 25 cm
c. 50 cm
d. 201 cm
7. Find the circumference of a circle with a radius of 10 m .
a. 6.28 m
b. 62.8 m
c. 628 m
d. 6280 m
8. Find the diameter of a circle with radius 5 .
a. 10
b. 25
c. 2.5
d. 20
9. A circle has a radius of 7 , what is the diameter?
a. 3.5
b. 14
c. 10
d. 7
10. Jenny baked a cake with a diameter of 14 inches. She put of ring of frosting around the outer edge of the top of the cake.

How many inches of frosting did Jenny put around the top of the cake?
a. 47
b. 44
c. 88
d. 72
11. A merry-go-round has a diameter of 25 feet. What is the approximate circumference of the merry-go-round?
a. 78.5 ft
b. 157 ft
c. 235.5 ft
d. 314 ft
12. The circumference of a circle is $100 \pi$. Find each of the following:
a) the diameter
b) the radius
c) the length of an arc of 120 degrees.
a) $\mathbf{1 0 0}$ inches
b) $\mathbf{5 0}$ inches
c) $100 / 3$ pi inches

