Name **Key**

Date _____

Day 4: Circles Review

7 Regulars

1) The radius of a circle is 17.5 cm. What is the length of the **diameter**?

(circle labeled 17.5) **35 cm**
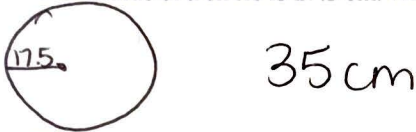
2) The diameter of a circle is 14 meters. What is the length of the **radius**?

(circle labeled 14m) **7m**

3) You want to find the distance around a circle, what **formula** would you use?

A $\quad r = d \div 2$ **(B)** $\quad C = 2\pi r$ C $\quad d = 2r$ D $\quad A = \pi r^2$

4) You want to find the amount of space that fits inside a circle, what **formula** would you use?

A $\quad r = d \div 2$ B $\quad C = 2\pi r$ C $\quad d = 2r$ **(D)** $\quad A = \pi r^2$

5) The diameter of a circle is 20 inches. Find the **circumference** of the circle. Leave your answer in terms of π. **Show your work.**

$$C = 2\pi r$$
$$C = 2\pi(10)$$
$$\boxed{C = 20\pi \text{ in}}$$

$$d = 20$$
$$r = 10$$

6) Find the **area** of a circle whose diameter is 10 cm. Leave your answer in terms of π. **Show your work.**

$$A = \pi r^2$$
$$A = \pi(5)^2$$
$$A = \boxed{25\pi \text{ cm}^2}$$

$$d = 10$$
$$r = 5$$

7) The diameter of a circle is 24 inches, what is the **circumference**? Round your answer to the nearest tenth. **Show your work.**

$$C = 2\pi r$$
$$C = 2\pi(12)$$
$$C = 75.39822369$$
$$\boxed{75.4 \text{ in}}$$

$$d = 24$$
$$r = 12$$

8) The diameter a circle is 12 ~~square~~ centimeters. What is the **area**? Use 3.14 for π.
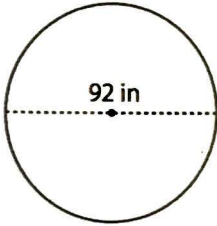*Show your work.*

$$A = \pi r^2$$
$$A = 3.14 (6)^2$$
$$A = \boxed{113.04 \ cm^2}$$

$d = 12$

$r = 6$

9) Find the radius and diameter of the circles in the following diagrams.

92 in

Radius: __46 in__

Diameter: __92 in__

10) The radius of a circle is 8 meters. Find the **circumference** of the circle. Use 3.14 for π.
Show your work.
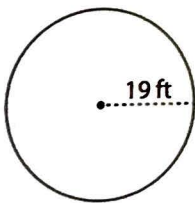
$$C = 2\pi r$$
$$C = 2(3.14)(8)$$
$$C = \boxed{50.24 \ m}$$

$r = 8$

11) Find the radius and diameter of the circles in the following diagrams.

19 ft

Radius: __19 ft__

Diameter: __38 ft__

12) The radius of a circle is 11 meters. Find the **area** of the circle. Round your answer to the nearest hundredth. *Show your work.*

$$A = \pi r^2$$
$$A = \pi (11)^2$$
$$A = 380.1327111$$
$$\boxed{380.13 \ m^2}$$

$r = 11$