

Name \_\_\_\_\_

Date \_\_\_\_\_

## Lesson 4: Circles

### Parts of a Circle

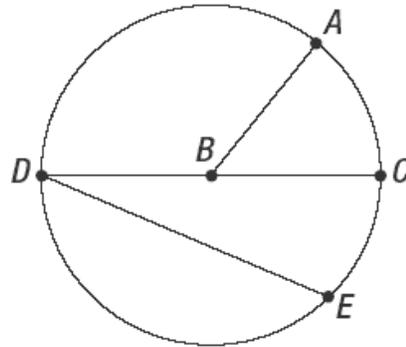
Video Help: [https://www.khanacademy.org/math/geometry/basic-geometry/circum\\_area\\_circles/v/parts-of-a-circle](https://www.khanacademy.org/math/geometry/basic-geometry/circum_area_circles/v/parts-of-a-circle)

**Directions:** Use the diagram below to label the parts of the circle.

1) Radius: \_\_\_\_\_

2) Diameter: \_\_\_\_\_

3) Chord: \_\_\_\_\_



### Circumference

Video Help: <https://learnzillion.com/lessons/818-find-the-circumference-of-a-circle>

**Directions:** For all questions, use  $\pi = 3.14$

4) The diameter of a circle is 4 miles. What is the circle's circumference?

5) The circumference of a circle is 18.84 centimeters. What is the circle's diameter?

6) The radius of a circle is 3 yards. What is the circle's circumference?

7) The circumference of a circle is 31.4 millimeters. What is the circle's radius?

8) In Mrs. Estrada's kindergarten class, children make handprints in a round clay mold for their parents. The mold has a radius of 2 inches. What is the mold's circumference?

9) Karla and Jeremy have a circular pool with a diameter of 12 feet. What is the circumference of the pool?

## Area

Video Help: <https://learnzillion.com/lessons/819-find-the-area-of-a-circle>

**Directions:** For all questions, use  $\pi = 3.14$

**10)** If the radius of a circle is 5 cm, find the area of the circle.

**11)** If the diameter of a circle is 25 in, find the area of the circle?

**12)** The area of a circle is  $28 \text{ cm}^2$ . Find the radius of the circle to the nearest hundredth of a centimeter.

**13)** The area of a circle is  $314 \text{ ft}^2$ . Find the diameter of the circle.

**14)** Timothy makes a round chocolate cake. He wants to put a cream layer on cake. If the cake is 6 cm in diameter, how many square cm of cream layer does he need to put on the chocolate cake?

**15)** Angela goes to the garden. There is a fountain. A circular fountain with a 10m radius lies alone in the center of a circular park with a 200 m radius. Calculate the total walking area available to the park visitors.

**16)** A Horse is tied with rope in the center of grassland to graze. The length of rope is 5m. The diameter of circular garden is 50m. Find the area in which the horse cannot graze.

**17)** Pat buys a round outdoor dinner table. The radius of the dinner table is 10 meters. What is the area of the table?