

## DIAMETER OF A CIRCLE

### What is the diameter of a circle?

The **diameter** of a circle is a line segment that passes through the center of a circle connecting one side of the circle to the other.

The **radius** of the circle is half of the diameter. It is a line segment that goes from the center of the circle to the side of the circle. If two radii are drawn from the center of the circle, the angle made between them is called a **central angle**.

A **chord** is a line segment that goes from one side of the circle to the other side of the circle, but does not pass through the center.

The term and

How



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be estimated to be 3.

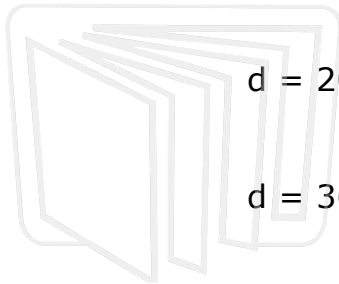
*Example:*

Estimate the circumference if  $d = 5 \rightarrow C = \pi \cdot d \rightarrow C = 3 \cdot 5 = 15$

- When finding circumference,  $\pi$  should be evaluated as given in the problem. If the circumference is given, the diameter can be found by filling in the circumference and then dividing by  $\pi$ . If given the circumference and the radius is needed, find the diameter and then divide by 2 to get the radius.

## Try this!

### 1. Find the radius:



$$d = 20$$

$$d = 36$$

$$d = 44$$

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### 2. Find the circumference:

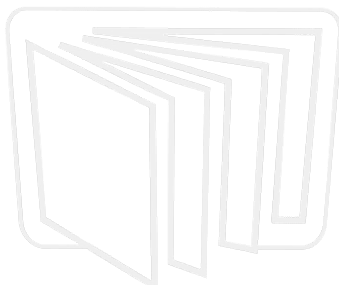


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$$C = 6.28 \text{ units}$$

$$C = 18.84 \text{ units}$$



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