



Math Virtual Learning

**Grade 7**

**Circumference**

May 6, 2020



Grade 7/Circumference  
Lesson: May 6, 2020

**Objective/Learning Target:**  
Find circumference of a circle in context.

**Let's Get Started:**  
Watch Video: [Circumference of a Pizza](#)

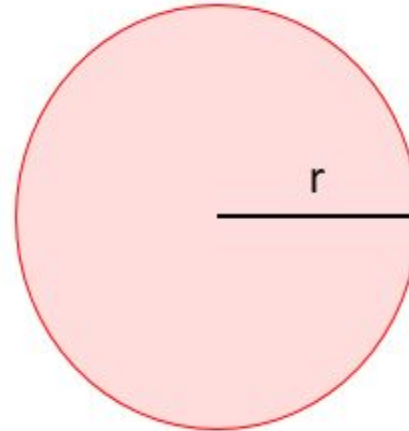
# Quick Video Review:

Below are the most important concepts from the video you just watched.

## Vocabulary

- A **circle** is the set of all points in a plane that are the same distance from a given point, called the **center**.
- The **circumference C** is the distance around a circle.
- The **radius r** is the distance from the center to any point on a circle.
- The **diameter d** is the distance across a circle through its center.

### Circumference of Circle



Circumference  
of circle

$$C = 2\pi r$$



Practice:  
Find the circumference.



$$C = 2\pi r$$



answer

FLAMINGTEXT.COM



Practice: Answer  
Find the circumference.

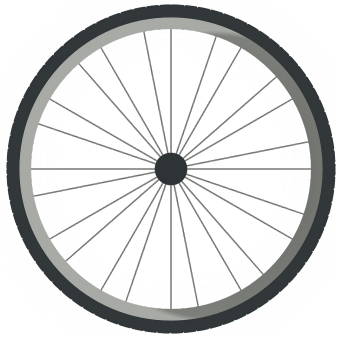


$$C = 2\pi r$$

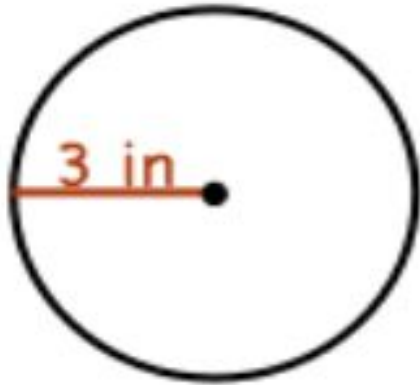


$$\begin{aligned} r &= 5 \text{ INCHES} \\ C &= 2 \cdot 3.14 \cdot 5 \\ C &= 31.4 \text{ INCHES} \end{aligned}$$





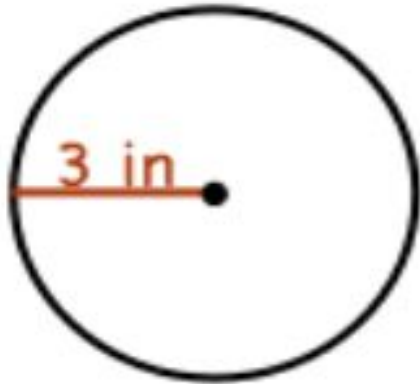
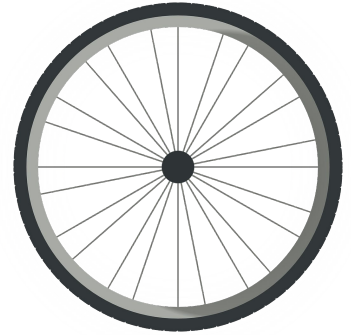
**Practice:**  
Find the circumference.



answer



**Practice:**  
Find the circumference.



$$\pi = 3.14$$

$$r = 3 \text{ in}$$

$$C = \pi d$$

$$C = 2\pi r$$

$$C = 2(3.14)(3)$$

$$C = 18.84$$

$$\begin{array}{r} 3.14 \\ \times 2 \\ \hline 6.28 \\ \times 3 \\ \hline 18.84 \end{array}$$

## Practice:

Go to this website:

[Khan Academy Circumference of a Circle](#)

1. Look at the question carefully.
2. Use the “Show Calculator” button for calculator assistance.
3. Use 3.14 as your value for  $\pi$ .
4. If you get stuck, click on the blue “watch a video or use a hint” link.
5. Answer all 4 questions.



# Practice:

Answer the questions on a piece of paper.

Use 3.14 for PI ( $\pi$ ).

1. The second hand of the clock is 7 inches long.

Find the circumference of the clock.



Circumference= \_\_\_\_\_

2. The diameter of a circular floor rug is 72 inches. Find its circumference.

Circumference= \_\_\_\_\_

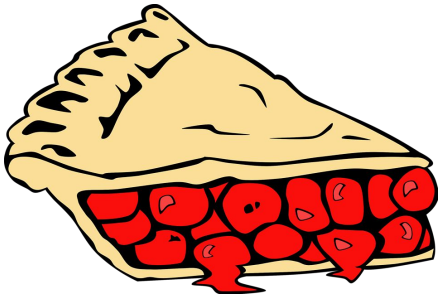
3. The radius of a wheel is 14 inches. Find the circumference.

Circumference= \_\_\_\_\_

## Practice:

Answer the questions on a piece of paper.  
Use 3.14 for PI ( $\pi$ ).

4. Becca wants to make a giant cherry pie to try to break the world record. If she succeeds in making a pie with a 20 ft diameter, what will be the total distance around the pie?



# Answer Key:

Once you have completed the problems, check your answers here.

1. The second hand of the clock is 7 inches long.

Find the circumference of the clock.



Circumference= C = 43.96 inches

$$C = 2(3.14)(7) = 43.96$$

2. The diameter of a circular floor rug is 72 inches. Find its circumference.

Circumference= C = 226.08 inches

$$C = (3.14)(72) = 226.08$$

3. The radius of a wheel is 14 inches. Find the circumference.

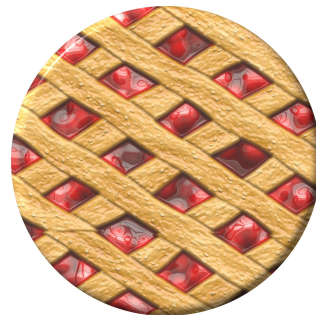
Circumference= C = 87.92 inches

$$C = 2(3.14)(14) = 87.92$$

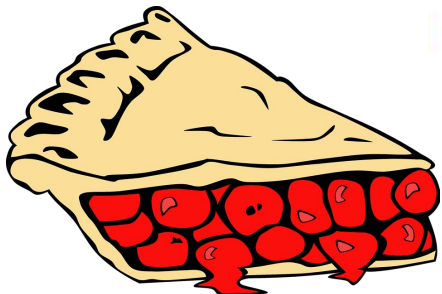
## Answer Key:

Once you have completed the problems, check your answers here.

4. Becca wants to make a giant cherry pie to try to break the world record. If she succeeds in making a pie with a 20 ft diameter, what will be the total distance around the pie?



$$\begin{aligned}c &= 2\pi r & \text{or} & & c &= \pi d \\c &= 2(\text{Pi})(\text{radius}) & \text{or} & & c &= (\text{Pi})(\text{diameter}) \\c &= 2(3.14)(10) & \text{or} & & c &= (3.14)(20) \\c &= 62.8 \text{ ft}\end{aligned}$$



Correct Answer

## **Additional Practice:**

Click on the links below to get additional practice and to check your understanding!

[Quizizz](#) - Word Problem Practice

[IXL](#) - Practice

[Math Games](#) - Practice

[Square Wheeled Trike](#) - Video

[PBS](#) - Practice

[ThatQuiz](#) - Practice (to nearest hundredth)