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Date: Classwork 11.2

#### Circumference

Aim: How can we find the circumference of a circle given the radius or diameter?

#### Circumference:

- **Circumference** is the distance around a circle; it is like perimeter.
- The formula for circumference of a circle is: circumference

The question can say...

	Round your answer	Use the TT button	
Leave in terms of $\pi$		DON'T USE TO but ton, leave in answ	
	Use 3.14 for π	Substitute (3.14) for TT	

# **Example 1: "Using the Pi Button"**

Find the circumference of the circle to the right. Round your answer to the nearest tenths place.

What do you know?	What do you need to find?
r=2	C

$$F = 2\pi\Gamma$$

$$S = 2 \pi (2)$$

$$M = 12.6662$$



On your calculator:







#### Try It!

Find the circumference of the circle to the right. Round your answer to the nearest hundredths place.

What do you know?

What do you need to find?

Step 1: Write out the formula

**Step 2:** Substitute

s (= 2TT (3) = type into

6cm

**Step 3:** Do the math.

Step 4: Round and label your answer

# Example 2: "Leaving in Terms of Pi"

Find the circumference of a circle whose radius is 10 yards. Leave your answer in terms of  $\pi$ .

$$r = 10$$

$$C = 2\pi \left(4\right) \text{ and the solution of the contraction of the contracti$$

Y= 17.5

#### Try It!

Find the circumference of a circle whose diameter is 8 inches. Leave your

answer in terms of  $\pi$ .

r=14

$$C = 2\pi r$$

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# Example 3: "Using 3.14 for Pi"

A round table has a diameter of 35 inches Find the **circumference** of the table. Use 3.14 for  $\pi$ . d = 35

# Try It!

A wheel has a diameter of 28 inches. What is the approximate distance around the outside of the wheel? Use 3.14 for  $\pi$ . d = 28