Name: $\qquad$
7R

Date: $\qquad$
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:


The question can say...

| Round your answer |  |
| :---: | :--- |
| Leave in terms of $\pi$ |  |
| Use 3.14 for $\pi$ |  |

## 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? |
| :--- | :--- |

Step 1: Write out the formula

Step 2: Substitute

Step 3: Do the math.

Step 4: Round and label your answer

F

S

M

U

## 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

Step 3: Do the math.
M

Step 4: Round and label your answer U

## Example 2: "Leaving in Terms of Pi"

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

F

S

M

U

## Try It!

Find the circumference of a circle whose diameter is 8 inches. Leave your answer in terms of $\pi$.

## 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 $\pi$.
F

S

M

## 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 $\pi$.

On your own: Answer the following questions. Show your work.

1) Mike purchases a round wall clock. The clock's radius is 10 inches. What is the circumference of the clock? Round your answer to the nearest hundredths place.

F

S

M

U

Circumference = $\qquad$
2) Lisa bought a cookie cake with a radius of 8 cm . What is the circumference of the cookie cake?

Leave your answer in terms of $\pi$.

F

S

M

U

Circumference $=$
3) Megan bought round plates for her mom for Christmas. The diameter of the plates is 11 inches. What is the circumference of the clock? Use $\mathbf{3 . 1 4}$ for $\pi$.

F

S

M

U

