## Math Virtual Learning

## Grade 7/Circumference

## May 5, 2020

## Grade 7/ Circumference Lesson: May 5, 2020

## Objective/Learning Target: Find circumference of a circle.

Let's Get Started: Click on the Video Link:


## Warm-Up

Radius - the distance $1 / 2$ way across a circle to its center point.


Diameter - the distance all the way across a circle through the center point. The diameter is twice the distance of the radius.


What is the radius and diameter of each circle?

radius $=$ $\qquad$
b.

radius $=$ $\qquad$
diameter $=$ $\qquad$ diameter $=$ $\qquad$

radius $=$ $\qquad$
diameter $=$ $\qquad$
d.

radius $=$ $\qquad$
diameter $=$ $\qquad$

## Warm-Up - Answer Key

Radius - the distance $1 / 2$ way across a circle to its center point.


Diameter - the distance all the way across a circle through the center point. The diameter is twice the distance of the radius.


What is the radius and diameter of each circle?


$$
\text { radius }=5 \mathrm{~mm}
$$

$$
\text { diameter }=10 \mathrm{~mm}
$$



$$
\text { radius }=9 \mathrm{~m}
$$

diameter $=18 \mathrm{~m}$

radius $=6 \mathrm{~cm}$
diameter $=12 \mathrm{~cm}$
d.

radius $=8 \mathrm{~km}$
diameter $=16 \mathrm{~km}$

Find the raidus, diameter, and circumference of each circle.

## Guided Practice

You may want to use paper, pencil and definitely a calculator.

A.) The radius of this circle is $\qquad$ .

The diameter of this circle is $\qquad$ _.

The circumference of this circle is $\qquad$ .
Circumference $=$ pi times diameter
$\mathrm{C}=\boldsymbol{\pi} \mathbf{d}$
$\mathrm{C}=3.14 \mathrm{~d}$
B.) The radius of this circle is $\qquad$ .

The diameter of this circle is $\qquad$ .

The circumference of this circle is $\qquad$ .


The radius of this circle is
 .
The diameter of this circle is $\qquad$ .

The circumference of this circle is 69.08 m
$C=\pi d$
$C=3.14 \bullet 22$
$C=69.08 \mathrm{~m}$
Circumference $=$ pi times diameter

$$
\begin{aligned}
& C=\pi d \\
& C=3.14 \mathrm{~d}
\end{aligned}
$$

B.)

The radius of this circle is $\qquad$ $16 \div 2=8$

The diameter of this circle is $\qquad$ 16 km

The circumference of this circle is 50.24 km $\qquad$ .

$$
\begin{aligned}
& C=\pi d \\
& C=3.14 \bullet 16 \\
& C=50.24 \mathrm{~km}
\end{aligned}
$$

## Additional <br> Practice

Find the Circumference - Quizizz

- Click on the link above.
- Choose either "Play Quiz" or "Flashcards".

You will want to have scratch paper and a calculator to help you.


## Practice:

## Answer the

 questions on a piece of paper.To find the circumference of a circle, use the formula $\mathbf{p i x}$ diameter $=$ circumference. This formula is often written as $\boldsymbol{C}=\boldsymbol{\pi} \times \boldsymbol{d}$.


The circle pictured here has a diameter of 10 cm .
$\boldsymbol{d}=10 \mathrm{~cm}$
$\pi \approx 3.14$
$10 \mathrm{~cm} \times 3.14=31.4 \mathrm{~cm}$

Find the circumference of each circle. Use 3.14 for pi.
a.

$$
\mathrm{r}=
$$

$$
\mathrm{d}=
$$

$\qquad$ -
$\mathrm{C}=\boldsymbol{\pi}$ •
$\mathrm{C}=$ $\qquad$ - $\qquad$
$\mathrm{C}=$
b.

$\mathrm{r}=$ $\qquad$ $\mathrm{d}=$ $\qquad$ -
$\mathrm{C}=\boldsymbol{\pi} \bullet$
$\mathrm{C}=$ $\qquad$ $\bullet$ $\qquad$
$\mathrm{C}=$ $\qquad$
c.

$\mathrm{r}=$ $\qquad$ $\mathrm{d}=$ $\qquad$
$\mathrm{C}=$
$\mathrm{C}=$
$\mathrm{C}=$
d.

$r=$ $\qquad$ $\mathrm{d}=$ $\qquad$
$\mathrm{C}=$
$\mathrm{C}=$
$\mathrm{C}=$

## Practice Answers

a.

b.

c.

d.


## Additional Links

- Click on the link:
- Radius and Diameter of a Circle Practice
- Practice finding radius and diameter of a circle. You may want a calculator!
- Click on the link:
- Paper Bird
- First answer the question given correctly.
- Then you will help the paper bird fly through the obstacles. If you hit an obstacle, the ground, or the top your paper bird will stop and you will have to answer another question.
- Hint: Make sure to look at the units of measure.



## CHALLENGE

$\square$ Learning Target: I can use circumference of a circle to find the diameter or radius.


## CHALLENGE - answers



