## Math Virtual Learning

## Pre-Algebra <br> Parts of a Circle

May 04, 2020

Grade 7/Parts of a Circle Lesson: May 4, 2020

## Objective/Learning Target: <br> Students will understand parts of a circle and find circumference of a circle.

## Instructional Video

## Labeling parts ofa circle

O Khan Academy

## Notes to Jot Down

Khan Academy : What is a Circle?

## Make sure you have this in your notes:

Radius : A line from the center of a circle to the outside edge.
Diameter : A straight line from one side of a circle, through the center, to the opposite side of the circle.

Circumference : The distance around a circle

## Guided Practice

## Answers on the next page

Identify the parts of each circle.
1)


Center $=$ $\qquad$

Radius $=$ $\qquad$
Diameter $=$ $\qquad$
2)


Center = $\qquad$

Radius $=$ $\qquad$
Diameter $=$ $\qquad$
3)


Center $=$ $\qquad$

Radius $=$ $\qquad$
Diameter $=$ $\qquad$

## Guided Practice Answers

Identify the parts of each circle.
1)


Center $=\mathbf{R}$
Radius $=\mathbf{R S}, \mathbf{R Q}, \mathbf{R P}$
Diameter $=\mathbf{P Q}$
2)


Center $=\mathbf{C}$
Radius $=\mathbf{C D}, A C, C B$
Diameter $=\boldsymbol{A B}$
3)


Center $=\underline{\mathbf{L}}$
Radius = LK, LJ
Diameter $=\mathbf{J K}$

## Inspiring Greatioess <br> Examples of Circumference



## Guided Practice <br> You may want to use paper, pencil and definitely a calculator.



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 $\qquad$ .

## Guided

 Practice Answer

|  | 11 m |
| :---: | :---: |
| The radius of this circle is |  |
|  | $22 \mathrm{~m} 11 \times 2=22$ |
| The diameter of this circle is |  |
| The circumference of this circle is | 69.08 m |
|  | $C=\pi \mathrm{d}$ |
|  | $\mathrm{C}=3.14 \bullet 22$ |
|  | $\mathrm{C}=69.08 \mathrm{~m}$ |

Circumference $=$ pi times diameter

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


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
$C=\pi d$
$C=3.14 \bullet 16$
$\mathrm{C}=50.24 \mathrm{~km}$

## Additional 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 $\mathbf{p i} \mathbf{x}$ 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.
b.

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

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

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

## Practice Answers

a.

c.

d.


## CHALLENGE

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



Circumference $=15.7$ in
$d=$ $\qquad$

## CHALLENGE - answers



Circumference $=15.7$ in

$$
\begin{aligned}
& \mathrm{C}=15.7 \quad \mathrm{~d}=? \\
& 15.7=\pi \bullet \mathrm{d} \\
& 15.7=\frac{3.14 \cdot d}{3.14} \\
& \mathbf{3 . 1 4} \mathrm{in}=\mathrm{d}
\end{aligned}
$$

## 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.


