

Math Virtual Learning

Pre-Algebra Parts of a Circle

May 04, 2020



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

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



Instructional Video





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

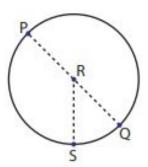


Guided Practice

Answers on the next page

Identify the parts of each circle.

1)

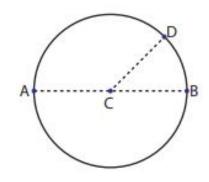


Center =

Radius = _____

Diameter = _____

2)

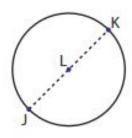


Center =____

Radius = _____

Diameter = ______

3)



Center = ____

Radius = _____

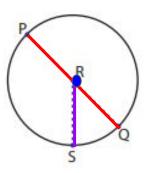
Diameter = _____



Guided Practice Answers

Identify the parts of each circle.

1)

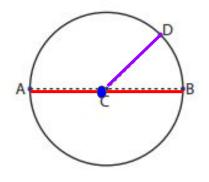


Center = R

Radius = RS, RQ, RP

Diameter = PQ

2)

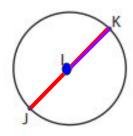


Center = C

Radius = CD, AC, CB

Diameter = AB

3)



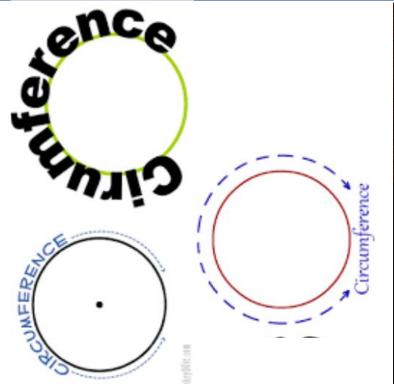
Center =

Radius = LK, LJ

Diameter = JK



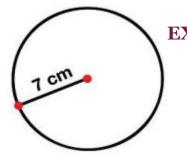
Examples of Circumference





Guided Practice

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



Find the raidus, diameter, and circumference of each circle. Use 3.14 for pi.

EXAMPLE

MPLE 7 cm
The radius of this circle is ______.

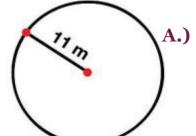
The diameter of this circle is $7 \times 2 = 14$

The circumference of this circle is 43.96 cm

$$C = \pi d$$

 $C = 3.14 \cdot 14$

$$C = 43.96 \text{ cm}$$



The radius of this circle is ______.

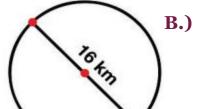
The diameter of this circle is ______.

The circumference of this circle is ...

Circumference = pi times diameter

$$\mathbf{C} = \pi \mathbf{d}$$

$$\mathbf{C} = 3.14\mathbf{d}$$



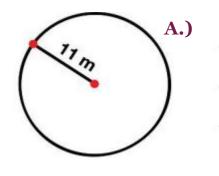
The radius of this circle is ______.

The diameter of this circle is ______.

The circumference of this circle is ______.

Guided Practice Answer





The radius of this circle is ______.

22 m 11 x 2 = 22

The diameter of this circle is _____.

The circumference of this circle is _____.

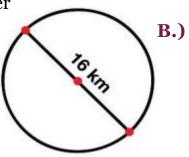
$$C = \pi d$$

 $C = 3.14 \cdot 22$
 $C = 69.08 \text{ m}$

Circumference = pi times diameter

$$C = \pi d$$

$$C = 3.14d$$



The radius of this circle is ______ 8 km ___ 16 \div 2 = 8

The diameter of this circle is ______.

The circumference of this circle is _50,24 km

$$C = \pi d$$

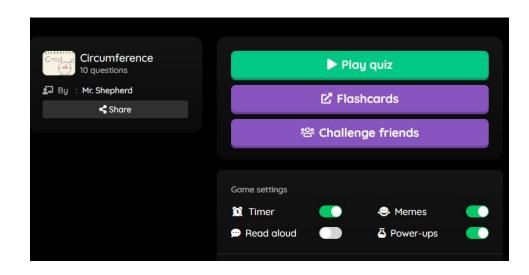
 $C = 3.14 \cdot 16$
 $C = 50.24 \text{ km}$

Additional Practice

Find the Circumference - Quizizz

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

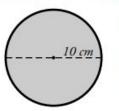
You will want to have scratch paper and a calculator to help you.



Practice:

Answer the questions on a piece of paper.

To find the circumference of a circle, use the formula $pi \times diameter = circumference$. This formula is often written as $C = \pi \times d$.



The circle pictured here has a diameter of 10 cm.

$$d = 10 \text{ cm}$$

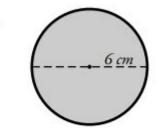
 $\pi \approx 3.14$

10 cm x 3.14 = 31.4 cm



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

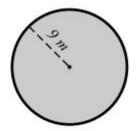
a.



 $C = \pi \bullet \underline{\hspace{1cm}}$

C = •

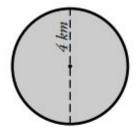
b.



$$C = \pi \bullet \underline{\hspace{1cm}}$$

$$C = \underline{\hspace{1cm}} \bullet \underline{\hspace{1cm}}$$

C.

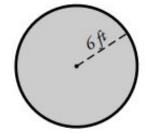


d =

$$C =$$

$$C =$$

d.



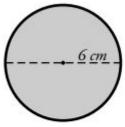
d =

C =

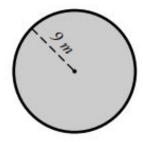
C =

Practice Answers

a.

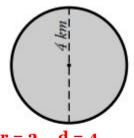


b.



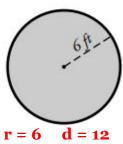
$$r = 9$$
 $d = 18$
 $C = \pi \cdot 18$
 $C = 3.14 \cdot 18$
 $C = 56.52 \text{ m}$

C.



$$r = 2$$
 $d = 4$
 $C = \pi \cdot 4$
 $C = 3.14 \cdot 4$
 $C = 12.56$ km

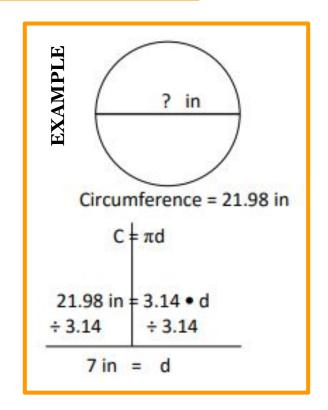
d.

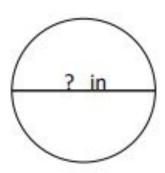


$$r = 6$$
 $d = 12$
 $C = \pi \cdot 12$
 $C = 3.14 \cdot 12$
 $C = 37.68 \text{ ft}$

CHALLENGE

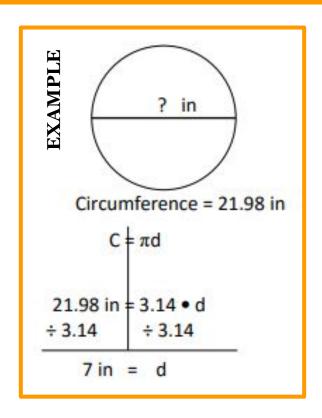
Learning Target: I can use circumference of a circle to find the diameter or radius.

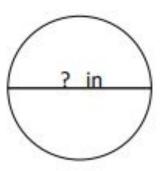




Circumference = 15.7 in

CHALLENGE - answers





Circumference = 15.7 in

$$C = 15.7 d = ?$$

$$15.7 = \pi \bullet d$$

$$\begin{array}{r} 15.7 = 3.14 \bullet d \\ 3.14 & 3.14 \end{array}$$

$$5 in = d$$

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.

