

Mar 16-7:43 AM

Circles, Circumference of Circles, and Area of Circles

While watching the	video,	write a	definition	of the
following words.				

diameter:

radius:

circumference:

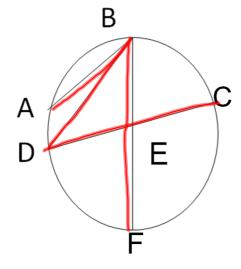
pi:

We will discuss the area of a circle tomorrow!

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Vocabulary			
Word	Definition	Picture	
circle	A set of all points in a plane that are the same distance from a given point called the center of a circle		
center of a circle	The point inside of the circle that is the same distance from all the points on the circle	•	
radius P	Line segment whose end points are the center of a circle and any point on the circle		
diameter	Line segment that passes through the center of a circle and whose endpoints lie on the circle		
chord	Line segment whose endpoints are any two points on a circle		
pi ■ ⇒	The constant 3.14, represents the ratio between the circumference and the	π	
	diameter of a circle.		

Name the parts of the circle:



- a. radii EF, De, CE,BE
- b. diameters -

BF, DC

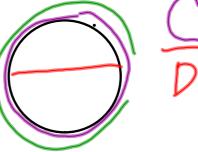
c. chords -

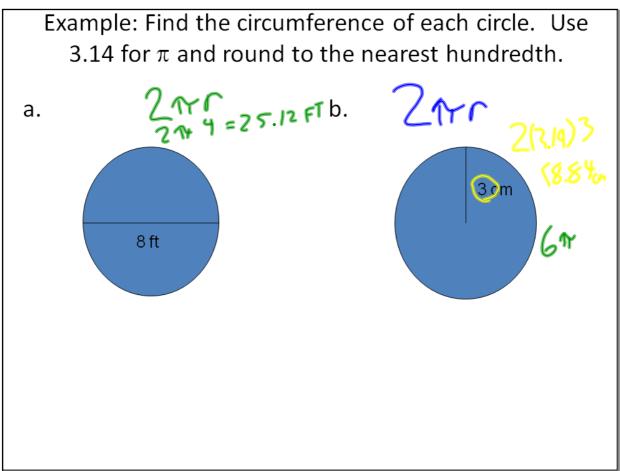
AB, DB, DC, RF

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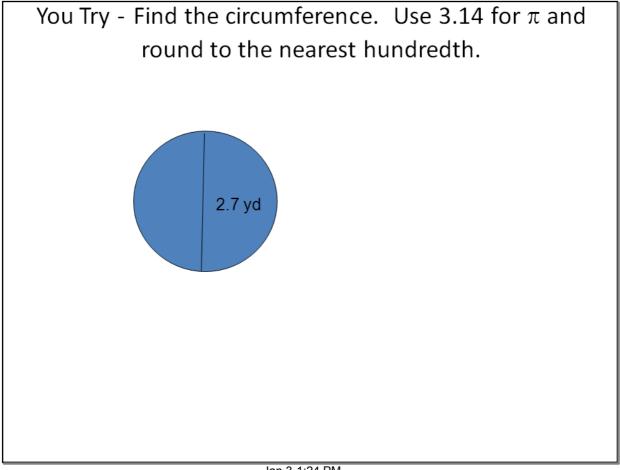
Key Concept: Circumference of a Circle

- the product of π and the circle's <u>diameter</u> d
- $C = \pi d$ or
- two times the product of π and the circle's radius r.
- $C = 2\pi r$





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Finding the length of the diameter or radius given the circumference. Use 3.14 for pure life the circumference of a circle is 37.68c the diameter. (Hint: use an equation.)

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You try:

If the circumference of a circle is 47.1 meters, find the diameter.

If the circumference of a circle is 56.52in, find the radius.

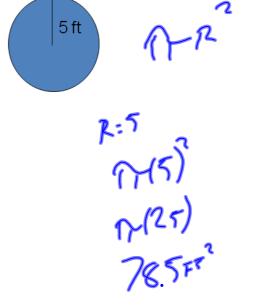
Key Concept: Area of a Circle

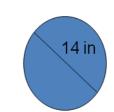
- the <u>product</u> of π and the square of the circle's radius r. $A = \mathcal{T}^{\mathcal{R}}$
- $A = \pi r^2$

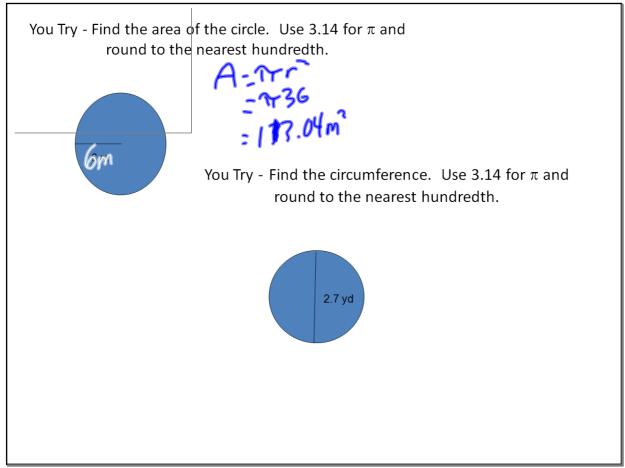
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Example: Find the area of each circle. Use 3.14 for π and round to the nearest hundredth.

a.







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