Name:



Lesson Guide

This lesson guide accompanies the following video lesson:

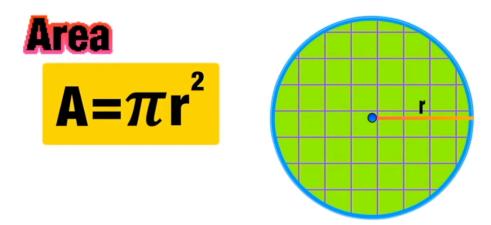
Circumference and Area of Circles

Key Questions

- What are the properties of a circle?
- How can you find the circumference of a circle?
- How can you find the area of a circle?



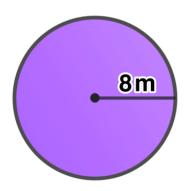
The circumference of a circle is the length of the line on the ______
of a circle. Circumference represents the perimeter of a circle.



The area of a circle represents how many square units it would take to fill in the entire _____ of a circle.

Practice Problem #1

Find the circumference and area of a circle with a radius of 8 meters.



Circumference

 $C = 2\pi r$

Area

 $A = \pi r^2$

Practice Problem #2

Find the circumference and area of a circle with a diameter of 24 inches.

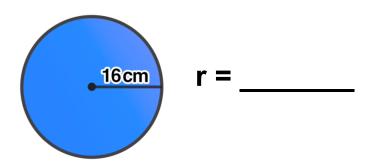


Circumference

Area

TRY ON YOUR OWN!

Find the circumference and area of a circle with a radius of 16 cm.



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Circu	212	~

Area

EXTRA PRACTICE

Part I: Find the Area of Each Circle:

1.) radius=10 cm

2.) diameter = 22 km	3.) radius= 2 ya
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4.) diameter = 10.2 ft

Part II: Find the Circumference of Each Circle:

	5.)	radius:	=8.4	cm
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6.) diameter = 14 km	7.) radius= 9.4 mm	8.) diameter = 4.4 ft

ANSWER KEY

Practice Problem #1: C = 50.3m $A = 201.1m^2$

Practice Problem #2 C = 75.4in $A = 452.4in^2$

Try On Your Own: C = 100.5cm $A = 804.2cm^2$

Extra Practice:

- 1.) $A = 314.2 cm^2$
- 2.) $A = 380.1 \, km^2$
- 3.) $A = 12.6 yd^2$
- 4.) $A = 81.7 ft^2$
- 5.) C = 52.8 cm
- 6.) C = 44 km
- 7.) $C = 59.1 \, mm$
- 8.) C = 13.8 ft