math Antics Worksheets

Name:

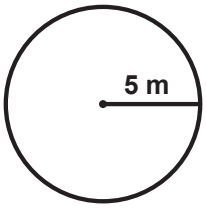
Date:

Estimating Circumference and Area

G-CCA 1

Instructions: A good way to quickly estimate the circumference and area of a circle is to round PI off to the whole number '3' (instead of using 3.14). Use PI = 3 to estimate the circumference and area of each of the circles below.

1

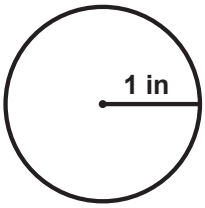


r = 5 m
so
d = 10 m

$C = \pi \times d$
$C = 3 \times 10$
$C = 30$ m

$A = \pi \times r^2$
$A = 3 \times (5 \times 5)$
$A = 75$ m^2

2



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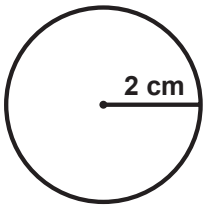

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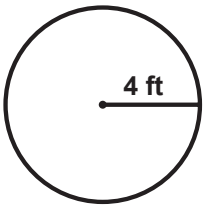

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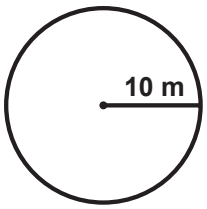

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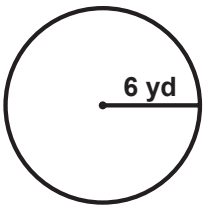

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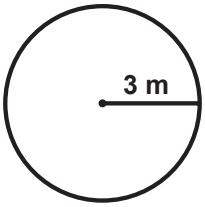
Calculating Circumference

G-CCA 2

Instructions: Use the formula you learned in the video to calculate the circumference of each circle below. Use PI = 3.14 and round your answers to two decimal places. You can use a calculator.
(Note: Sometimes the problem gives you the radius, but sometimes it gives you the diameter.)

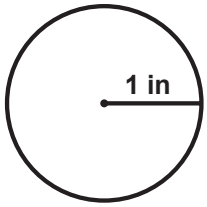
1



d = 3 x 2 = 6 m

C = π x d
C = 3.14 x 6 m
C = 18.84 m

2



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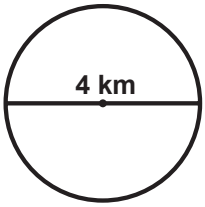

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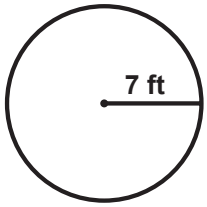

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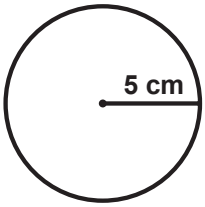

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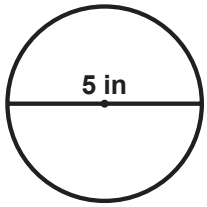

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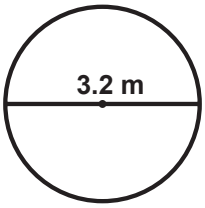

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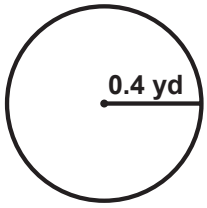

math Antics Worksheets

Name:

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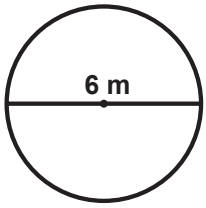
Calculating Area

G-CCA 3

Instructions: Use the formula you learned in the video to calculate the area of each circle below. Use PI = 3.14 and round your answers to two decimal places. You can use a calculator.
(Note: Sometimes the problem gives you the radius, but sometimes it gives you the diameter.)

1



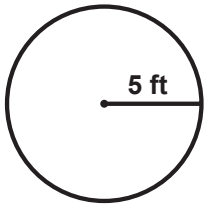
$A = \pi \times r^2$

$A = 3.14 \times (3 \times 3)$

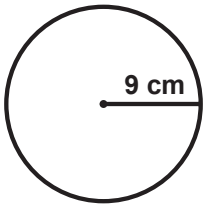
$A = 28.26\ m^2$

$r = \frac{6}{2} = 3\ m$

2



3



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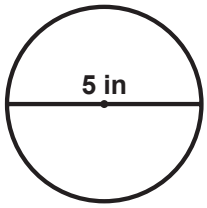

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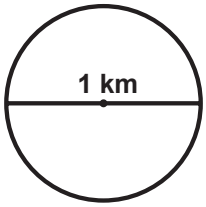

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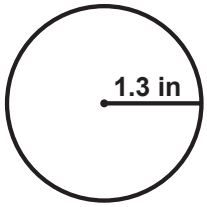

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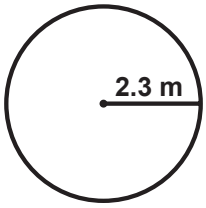

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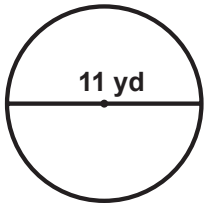

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Name:

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Calculating Circumference and Area

G-CCA 4

Instructions: For the following problems, use PI = 3.14 You may use a calculator. If necessary, round your answers to two decimal places.

1. A circle has a radius of 1.5 meters. Find its circumference and area.

2. A circle has a diameter of 26 feet. Find its circumference and area.

3. A circle has a diameter of 40 miles. Find its circumference and area.

4. A circle has a radius of 3.5 centimeters. Find its circumference and area.

5. A circle has a diameter of 16 inches. Find its circumference and area.

6. A circle has a radius of 0.3 meters. Find its circumference and area.

math Antics Worksheets

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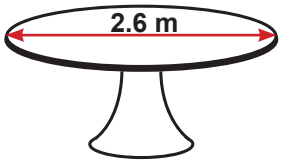
Circumference and Area - Word Problems

G-CCA 5

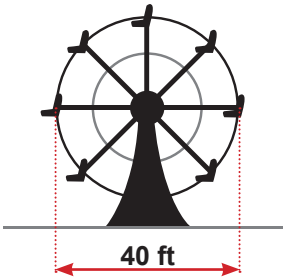
Instructions: For the following problems, use PI = 3.14. You may use a calculator. If necessary, round your answers to two decimal places.

1 A bicycle tire has a radius of 14 inches. What is the circumference of the tire?

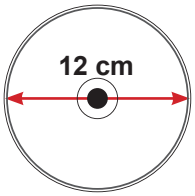
2 A round table top has a diameter of 2.6 meters. What is its surface area?



3 A Ferris-Wheel at an amusement park has a diameter of 40 feet. How far would you travel in one revolution? (In other words, find the circumference.)



4 A DVD disc has a diameter of 12 centimeters. What is the surface area of one side of the disc?



5 Which has the greatest surface area: two pizzas that have 14 inch diameters or one pizza that has a 20 inch diameter?