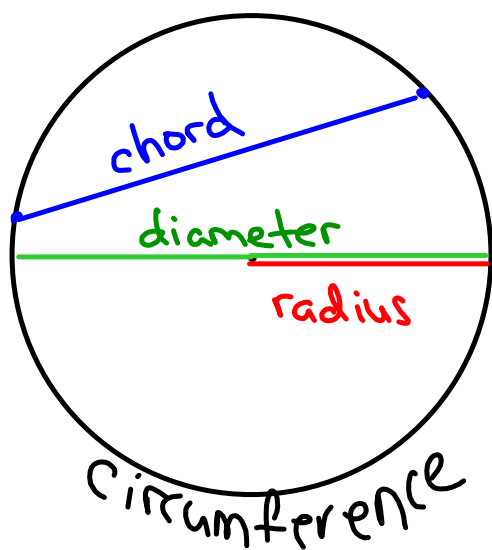


4-17-17

Aim: SWBAT develop and use the circumference formula.

Do Now: Calculator and Circles Packet

HW: Finish Circumference WS



• 1 diameter = 2 radii

• 1 radius = $\frac{1}{2}$ diameter

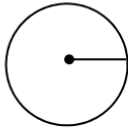
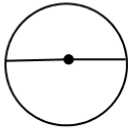
$$C = \pi d$$

$$C = 2\pi r$$

Circumference of a Circle

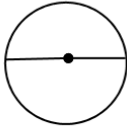
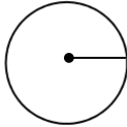
Find the circumference of the circle using $C = 2\pi r$. Write your answer four different ways.

EXACT

<p>1. A circle with radius 5 cm.</p> 	<p>Answer in terms of π.</p> <p>$C = 2\pi r$ $C = 2 \cdot \pi \cdot 5$ $C = 10\pi \text{ cm}$</p>	<p>Answer using the π button.</p> <p>$C = 2\pi r$ $C = 2 \cdot \pi \cdot 5$ $C = 10\pi$ $C = 31.41592654 \dots$</p>	<p>Answer rounded to the nearest tenth.</p> <p>$C = 2\pi r$ $C = 2 \cdot \pi \cdot 5$ $C = 10\pi$ $C = 31.41592654 \dots$ $C \approx 31.4 \text{ cm}$</p>	<p>Answer using $\pi \approx 3.14$.</p> <p>$C = 2\pi r$ $C \approx (2)(3.14)(5)$ $C \approx 31.4 \text{ cm}$</p>
<p>2. A circle with diameter 20 inches.</p> 	<p>Answer in terms of π.</p>	<p>Answer using the π button.</p>	<p>Answer rounded to the nearest tenth.</p>	<p>Answer using $\pi = 3.14$.</p>

Circumference of a Circle

Find the circumference of the circle using $C = \pi d$. Write your answer four different ways.

<p>3. A circle with diameter 7 inches.</p> 	<p>Answer in terms of π.</p> <p>$C = \pi d$ $C = \pi \cdot 7$ $C = 7\pi \text{ in.}$</p>	<p>Answer using the π button.</p> <p>$C = \pi d$ $C = \pi \cdot 7$ $C = 7\pi$ $C = 21.99114858$</p>	<p>Answer rounded to the nearest tenth.</p> <p>$C = \pi d$ $C = \pi \cdot 7$ $C = 7\pi$ $C = 21.9914858$ $C \approx 22.0 \text{ in.}$</p>	<p>Answer using $\pi = 3.14$.</p> <p>$C = \pi d$ $C \approx (3.14)(7)$ $C \approx 21.98 \text{ in.}$</p>
<p>4. A circle with radius 20 meters.</p> 	<p>Answer in terms of π.</p>	<p>Answer using the π button.</p>	<p>Answer rounded to the nearest tenth.</p>	<p>Answer using $\pi = 3.14$.</p>