

DETERMINE THE AREA AND CIRCUMFERENCE OF A CIRCLE

- The **circumference** of a circle is the distance around the outside.
- The **diameter** of a circle is the distance across the inside of a circle through the center.
- The **radius** of a circle is half the diameter.
- The circumference is calculated by multiplying the diameter of the circle times the value of pi (**π**) which is approximately **3.14** → **$C = \pi D$**
- The area of a circle is the space contained within the circumference. It is measured in square units.

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- **$C = \pi \times D$**
- **$D = 8 \text{ cm}$**
- **$C = 3.14 \times 8$**
- **$C = 25.12 \text{ cm.}$**

- Use the formula **$A = \pi \times r^2$** to calculate the area of a circle.

- Input the length of the radius and perform the operation.

- $A = \pi \times r^2$
- $D = 12 \text{ cm} \rightarrow r = 6 \text{ cm}$
- $A = 3.14 \times 6^2$
- $A = 3.14 \times 36$
- **$A = 113.04 \text{ sq. cm}$**
- $A = \pi \times r^2$
- $D = 20 \text{ cm} \rightarrow r = 10 \text{ cm}$
- $A = 3.14 \times 10^2$
- $A = 3.14 \times 100$

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Try This!

1. What is the area of a circle with a diameter of 24 inches?

2. What is the area of a circle with a radius of 15 cm?

3. V

4. V

5. V

8 cm?



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