

# **Math Virtual Learning**

# Pre-Algebra Area of Circles

May 5, 2020

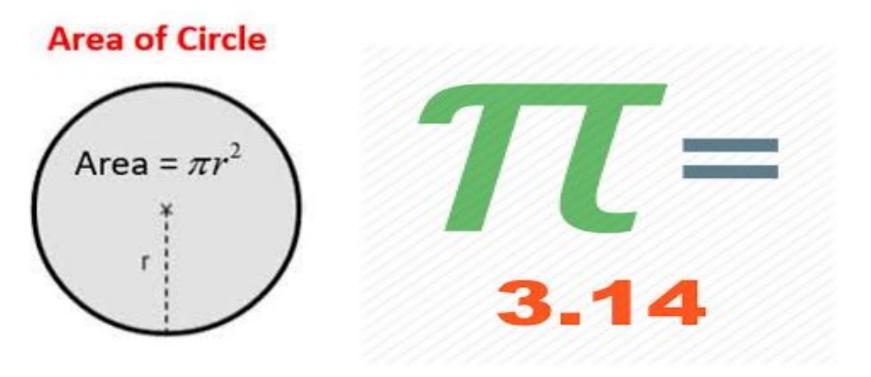


#### Grade 7/Area of Circles Lesson: May 5, 2020

#### Objective/Learning Target: Find the area of a circle.

Let's Get Started: Watch Video: <u>Area of a Circle</u>

### Quick Video Review: Below are the most important concepts from the video you just watched.



#### Find the value of these numbers, raised to the 2nd power.

Area of Circles

#### Warm Up Simplify.

- **1.** 8<sup>2</sup>
- **2.** 12<sup>2</sup>
- **3.** 6.2<sup>2</sup>
- 4. 7.5<sup>2</sup>

#### Find the value of these numbers, raised to the 2nd power.

Area of Circles

#### Warm Up Simplify.

**1.**  $8^2$ 64 $8 \times 8 = 64$ **2.**  $12^2$ 144 $12 \times 12 = 144$ **3.**  $6.2^2$ 38.44 $6.2 \times 6.2 = 38.44$ **4.**  $7.5^2$ 56.25 $7.5 \times 7.5 = 56.25$ 

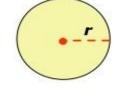
#### Just another reminder that...

## Area of Circles

#### **AREA OF A CIRCLE**

The area A of a circle is the product of  $\pi$  and the square of the circle's radius r.

$$A = \pi r^2$$

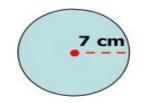


## Practice: Go to this website: <u>Khan Academy Area of a Circle</u>

- 1. Look at the question carefully.
- 2. Use the "Show Calculator" button for calculator assistance.
- 3. Use 3.14 as your value for Pi.
- 4. If you get stuck, click on the blue "watch a video or use a hint" link.
- 5. Answer all 7 questions.

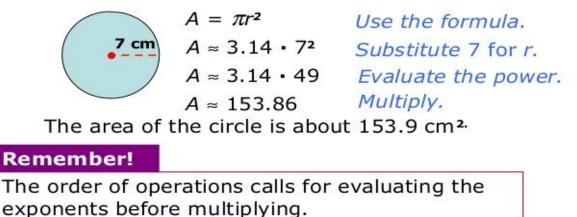
Answer the question on a piece of paper. Use 3.14 for Pi  $(\pi)$ .





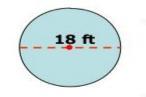
Answer the question on a piece of paper. Use 3.14 for Pi  $(\pi)$ .





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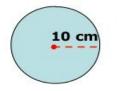
## Find the area of the circle to the nearest tenth. Use 3.14 for $\pi$ .



The area of the circle is about 254.3 ft<sup>2</sup>.

Answer the question on a piece of paper. Use 3.14 for Pi  $(\pi)$ .





Answer the question on a piece of paper. Use 3.14 for Pi  $(\pi)$ .



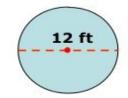
## Find the area of the circle to the nearest tenth. Use 3.14 for $\pi$ .



The area of the circle is about 314 cm<sup>2</sup>.

Answer the question on a piece of paper. Use 3.14 for Pi  $(\pi)$ .





Answer the question on a piece of paper. Use 3.14 for Pi  $(\pi)$ .



## Find the area of the circle to the nearest tenth. Use 3.14 for $\pi$ .



The area of the circle is about 113.0 ft<sup>2</sup>.

#### **Additional Practice:**

Click on the links below to get additional practice and to check your understanding!

Quizizz - Practice

IXL - Practice

**Pro Profs** - Practice

Open Middle - Challenge