

7th Grade  
June 8, 2021

Today we will:

- Read notes together
- Complete WS
- Check answers

HOMEWORK:

None



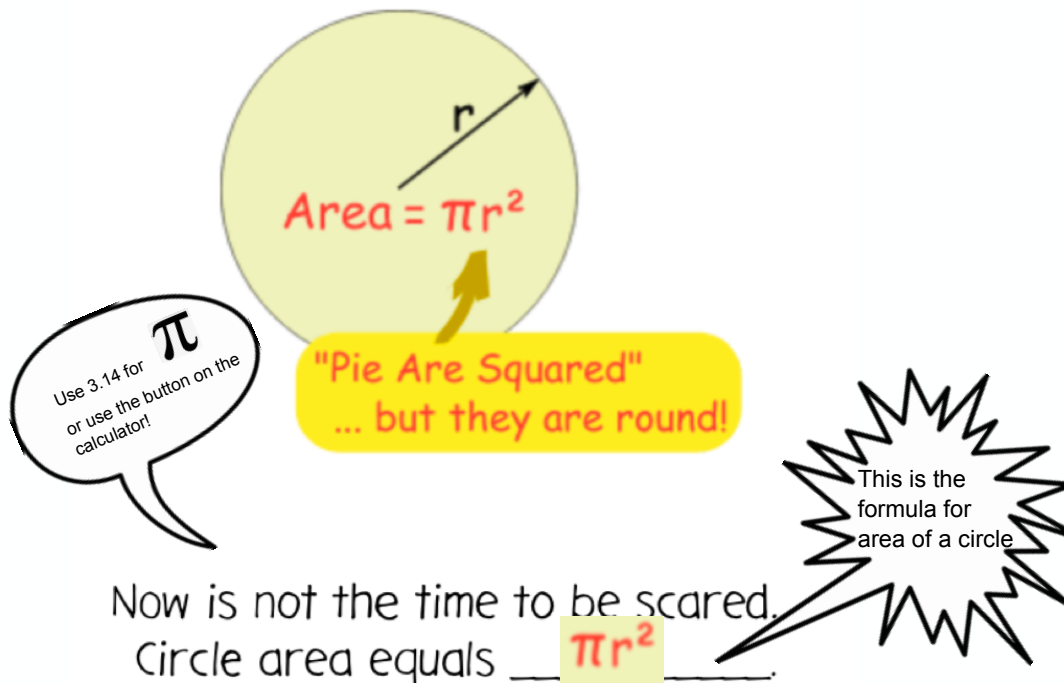
Complete and put into binder. Name \_\_\_\_\_

Circles Notes, Ch12 Lesson 2, June 8

The space contained inside a circle is the area of a circle.

Area always has square units.

Don't be "Square"  
About Area...



Sometimes, the circle will show the diameter (the distance all the way

across the center); if this is the case, you must divide

the diameter by 2.

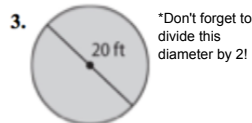
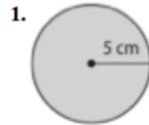
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Circles Video Notes, Ch12 Lesson 2, June 8

**\*Calculator ok\*\***

Formula for Area:  $A = \pi r^2$

**Find the area of each circle. Round to the nearest tenth.**



5. radius = 6 kilometers

6. diameter = 14 inches

\*Don't forget to divide this diameter by 2!

7. diameter = 6 yards

\*Don't forget to divide this diameter by 2!

8. radius = 5 feet

9. radius = 18 centimeters


10. diameter = 8.4 meters


\*Don't forget to divide this diameter by 2!


Key:


Formula for Area:  $\pi r^2$  \* cannot use diameter for area

Find the area of each circle. Round to the nearest tenth.

1.   $A = \pi r^2$   
 $= \pi \cdot 5^2$   
 $= 3.14 \cdot 25$   
 $= 78.5 \text{ cm}^2$

2.   $d = 24$   
 So  $r = \frac{24}{2} = 12$   
 $A = \pi \cdot 12^2$   
 $= 3.14 \cdot 144$   
 $= 452.16 \text{ m}^2$

3.   $d = 20$   
 So  $r = \frac{20}{2} = 10$   
 $A = \pi r^2$   
 $= \pi \cdot 10^2$   
 $= 3.14 \cdot 100$   
 $= 314 \text{ ft}^2$

4.   $r = 8$   
 $A = \pi \cdot r^2$   
 $= \pi \cdot 8^2$   
 $= 3.14 \cdot 64$   
 $= 200.96 \text{ in}^2$

5. radius = 6 kilometers  
 $A = \pi \cdot r^2$   
 $= \pi \cdot 6^2$   
 $= 3.14 \cdot 36$   
 $= 113.04 \text{ km}^2$

6. diameter = 14 inches  
 $r = 7$  inches  
 $A = \pi \cdot 7^2$   
 $= 3.14 \cdot 49$   
 $= 153.86 \text{ in}^2$

7. diameter = 6 yards  
 $r = 3$  yd  
 $A = \pi \cdot r^2$   
 $= 3.14 \cdot 3^2$   
 $= 3.14 \cdot 9$   
 $= 28.26 \text{ yd}^2$

8. radius = 5 feet  
 $A = \pi r^2$   
 $= \pi \cdot 5^2$   
 $= 3.14 \cdot 25$   
 $= 78.5 \text{ cm}^2$

9. radius = 18 centimeters  
 $A = \pi r^2$   
 $= \pi \cdot 18^2$   
 $= 3.14 \cdot 324$   
 $= 1017.36 \text{ cm}^2$

10. diameter = 8.4 meters  
 $r = 4.2$  m  
 $A = \pi \cdot (4.2)^2$   
 $= 3.14 \cdot 17.64$   
 $= 55.3896 \text{ m}^2$

\* Area has square units