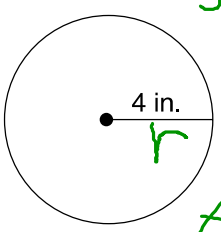
Name _____ Date _____ Class _____

LESSON 9-5

Reteach

Area of Circles

The formula $A = \pi r^2$ is used to find the area of a circle. Since the value of π is about 3.14, you can use the formula $A \approx 3.14 \cdot r \cdot r$ to estimate the area of a circle. Remember that area is expressed in square units.



The radius of the circle is 4 in.

$A \approx 3.14 \cdot r \cdot r$

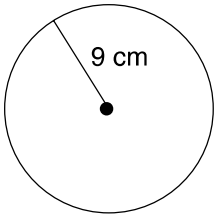
$A \approx 3.14 \cdot 4 \cdot 4$

$A \approx 50.24$

The area of the circle is 50.2 in^2 to the nearest tenth.

Find the area of each circle to the nearest tenth. Use 3.14 for π.

1.



The radius is 9 cm.

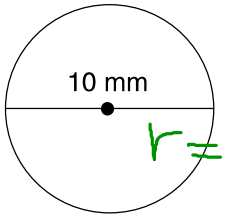
$A = \pi r^2$

$A \approx 3.14 \cdot 9 \cdot 9$

$A \approx 254.3$

The area is 254.3 cm^2 to the nearest tenth.

2.



The diameter is 10 mm.

The radius is 5 mm.

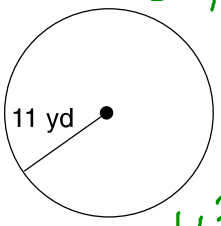
$A = \pi r^2$

$A \approx 3.14 \cdot 5 \cdot 5$

$A \approx 78.5\ mm^2$

The area is _____ m^2 to the nearest tenth.

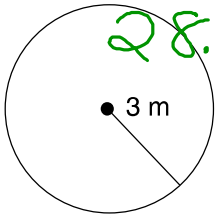
3.



$3.14 \cdot 11^2$

379.9 yd^2

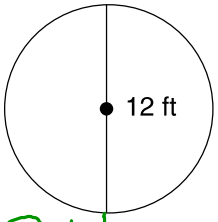
4.



$3.14 \cdot 3 \cdot 3 =$

28.26 m^2

5.



$3.14 \cdot 6 \cdot 6 =$

113.04 ft^2

6. What is the area of a circle with radius 13 yd? Round your answer to the nearest tenth.

$3.13 \cdot 3.14$ 530.66 yd^2