NAME _____

Lesson 11.6 Area of Circles

The area of a circle is found by using the formula $A = \pi \times r \times r$. Remember, π can be expressed as $3\frac{1}{7}$ or as 3.14. If you know the diameter of a circle, divide by 2 to find the radius.

What is the area if $r = 6$?

$A = \frac{22}{7}(6)(6)$

$A = 113\frac{1}{7}$ square units

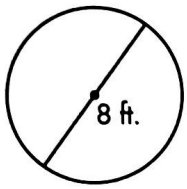
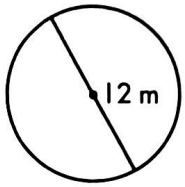
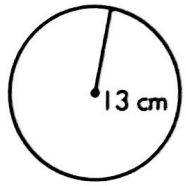
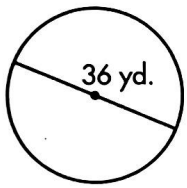
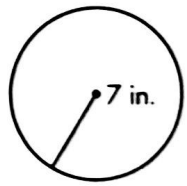
What is the area if $d = 8$?

$A = 3.14 \times \frac{8}{2} \times \frac{8}{2}$

$A = 3.14 \times 4 \times 4$

$A = 50.24$ square units

Find the area of each circle below. Use 3.14 for pi. Round your answer to the nearest tenth.

	a	b	c
1.			
	_____ square feet	_____ square meters	_____ square centimeters
2.			
	_____ square yards	_____ square kilometers	_____ square inches

Complete the table. Use 3.14 for pi. Round your answer to the nearest tenth.

	Diameter	Radius	Area
3.	_____ inches	3 inches	_____ square inches
4.	18 feet	_____ feet	_____ square feet
5.	17 meters	_____ meters	_____ square meters
6.	_____ centimeters	32 centimeters	_____ square centimeters
7.	30 kilometers	_____ kilometers	_____ square kilometers
8.	_____ yards	6 yards	_____ square yards