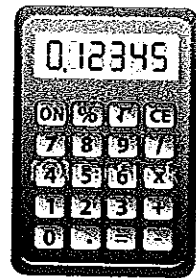


CIRCLES, CIRCLES, CIRCLES

Tier	Problems to Do	Points
ALL TIERS	Interactive Page	6
A	"A" Page - 5 problems "B" Page - 3 problems	22
B	"A" Page - 3 problems "B" Page - 4 problems "C" Page - 1 problem	22
C	"B" Page - 2 problems "C" Page - 3 problems "D" Page - 1 problem	23
ACC	"B" Page - 2 problems "C" Page - 8 problems "D" Page - 3 problem	29



Show all of your work. Be sure to show the parentheses and all the substitutions. Round every step to the 100ths place. Label each problem with a letter and number like: A #3.

Circles: Interactive Page

Practice circle vocabulary here:

<http://www.ixl.com/math/grade-7/parts-of-a-circle>

Time elapsed:

Smart Score:

Write the 3 vocab words and definitions here.

Everyone must do this page!

Use this interactive circle and find some circumferences:

<http://www.mathwarehouse.com/geometry/circle/interactive-circumference.php>

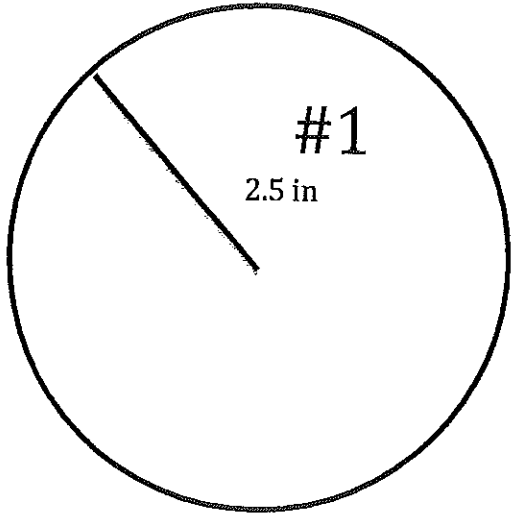
Write 3 examples of radii and circumferences:

$$\pi = 3.14$$

$$C = \pi d \text{ or } 2\pi r$$

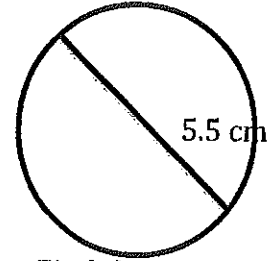
$$A = \pi r^2 \text{ (}\pi\text{)(}r\text{)(}r\text{)}$$

Circles: Practice "A" Page (2 pts)



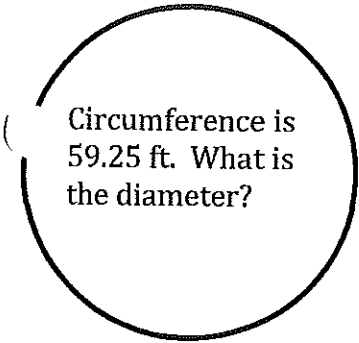
Find the circumference and area.

#2



Find the circumference and area.

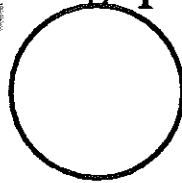
#3



Should be on "D" page

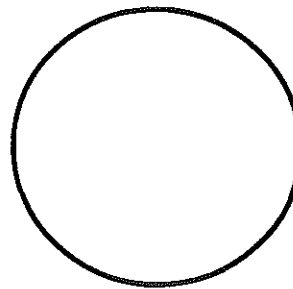
↓

#4



The area is 18.0864 square inches. What is the radius?

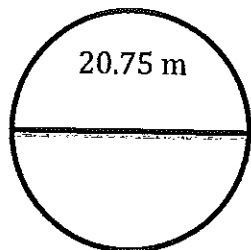
#5



Circumference is 6 in. What is the radius?

#6

Find the circumference and area.



Circles: Practice "B" Page (3 pts)

#1

The Earth has a diameter of 7,926.41 miles, what is the distance around the Earth?

#3

The circumference of the moon is about 6790 miles. What is the distance to the center of the moon in km? (remember: $1\text{m} \approx 1.6\text{ km}$)

#2

Adele cycled to school. Find the distance travelled by Adele if her bicycle wheels rotated 840 times and the radius is 0.25 m.

#4

Bernie works at a community center that has a circular swimming pool with a circumference of 40 meters. He would like to use a rope to divide the pool down the center. What should be the length of the rope?

#5

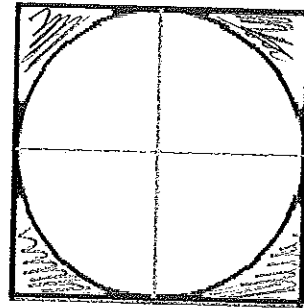
Find the radius of a circle if its area is 50 square inches.

Circles: Practice "C" Page (4 pts)

#1

Ed and Carol are jogging around a circular track in the park. The diameter of the track is 0.8 miles. Find, to the nearest mile, the number of miles they jogged if they made two complete trips around the track.

#2



Calculate the shaded area, knowing that the side of the outer square is 6 cm and the radius of the circle is 3 cm.

#3

Anne is riding a horse which is tied to a pole with a 3.5 m piece of rope and her friend, Laura, is riding a donkey which is 2 m from the same center point. Calculate the distance traveled by each when they have rotated 50 times around the center.

#4

Penny Pinscher is purchasing pepperoni pizzas for her pals. A pizza 10 inches in diameter costs \$7.00, and a pizza 16 inches in diameter costs \$16.00. Should Penny purchase two 10-inch pizzas or one 16-inch pizza to get the most pizza for her money? Explain your answer.

Circles: Practice "D" Page (5 pts)

#1

The radius of circle B is 2.5 times the radius of circle A. If the area of Circle A is 8 square yards, what is the area of circle B?

#2

The Blackwells have a circular pool with a radius of 10 feet. They want to install a 3-foot sidewalk around the pool. What will be the area of the walkway?

#3

A circular fountain at a park has a radius of 4 feet. The mayor wants to build a fountain that is quadruple the radius of the current fountain. Find the circumference of the new fountain. Round to the nearest tenth.

#4

Three congruent circles are inside a rectangle as shown below. Which is greater, the length of the rectangle l , or the circumference of the circle? Explain.

