

Name: _____

Date: _____

Topic: Area and Circumference Review

Homework:

Solve the problems. Use 3.14 for π .

- 1 The diameter of a DVD is 12 centimeters. The hole in the center of a DVD has a diameter of 1.5 centimeters.

Find the area of the DVD. Round to the nearest hundredth if necessary.

Show your work.

A diagram might help you solve this problem.



Solution: _____

- 2 Keb wants to put a swimming pool in his backyard. He buys a square plastic tarp to go under it. The circumference of the pool is 48 feet. The tarp is 16 feet on each side.

- Show that the tarp is large enough for the pool to fit entirely on the tarp.
- To the nearest percent, what percent of the tarp will be covered by the pool?

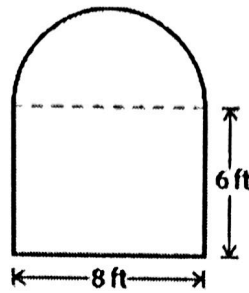
Show your work.

What is the largest pool diameter that will fit on the tarp?



- 3 A gate is made up of a rectangle and a semicircle, as shown. Find the area of the gate.

Show your work.



How can you find the area of a composite figure?



Solution: _____

- 4 Tuan wants to add trim only around the edges of the gate in problem 3. How much trim does he need?

- A 20.28 feet C 34.56 feet
B 32.56 feet D 39.12 feet

Which formulas do you need to solve this problem?



- 5 Chas builds a circular pen for his dog. The radius of the pen is 9 feet. How much fencing did Chas use for the pen?

- A 28.26 feet C 63.585 feet
B 56.52 feet D 254.34 feet

Do you need to find the circumference or the area of the circle?



Skye chose A as the correct answer. How did she get that answer?

- 6 A circular plate has a radius of 12 Inches. Complete the table. Include a number and a unit in the last column.

Property of Circle	Formula	Measure
Area		
		24 Inches
Circumference		

What units are used with each measure?

