

Multi-step word problems involving Circles

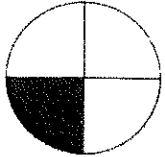
Name: _____

Date: _____

Period: _____

Round to the nearest hundredth if necessary. Show all work and make sure you explain in detail the answers when it asks for an explanation.

1. The circle below has a diameter of 12 cm. Calculate the area of the shaded region.



2. After you have found one way to solve the problem find a second way using a different strategy.

3. What is the distance around the whole circle? What is the distance around just the shaded area?

4. Three circles have centers on segment AB . The diameters of the circles are in the ratio $3:2:1$. If the area of the largest circle is 36 ft^2 , find the area inside the largest circle but outside the smaller two circles.

