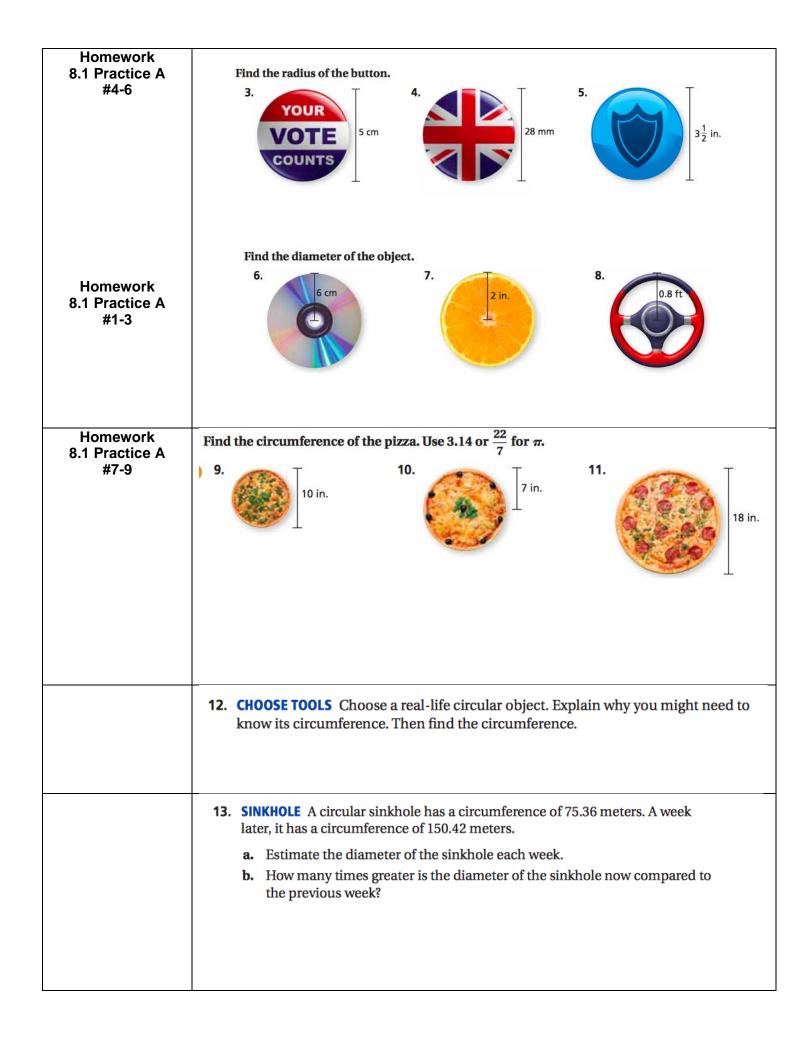
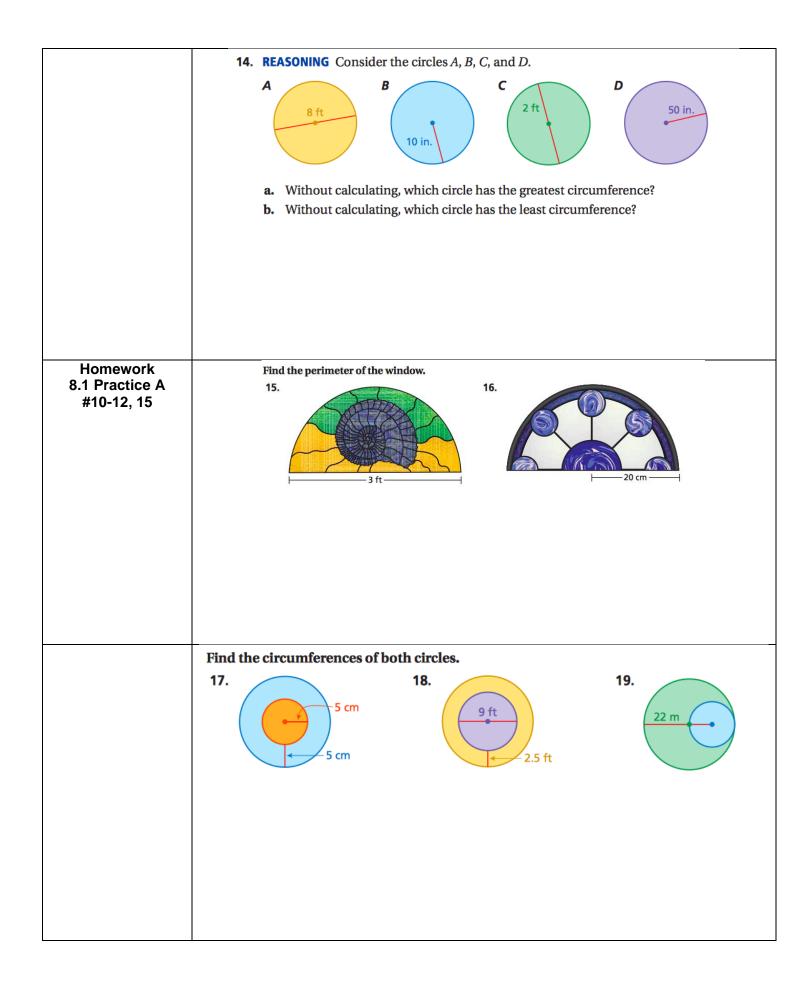
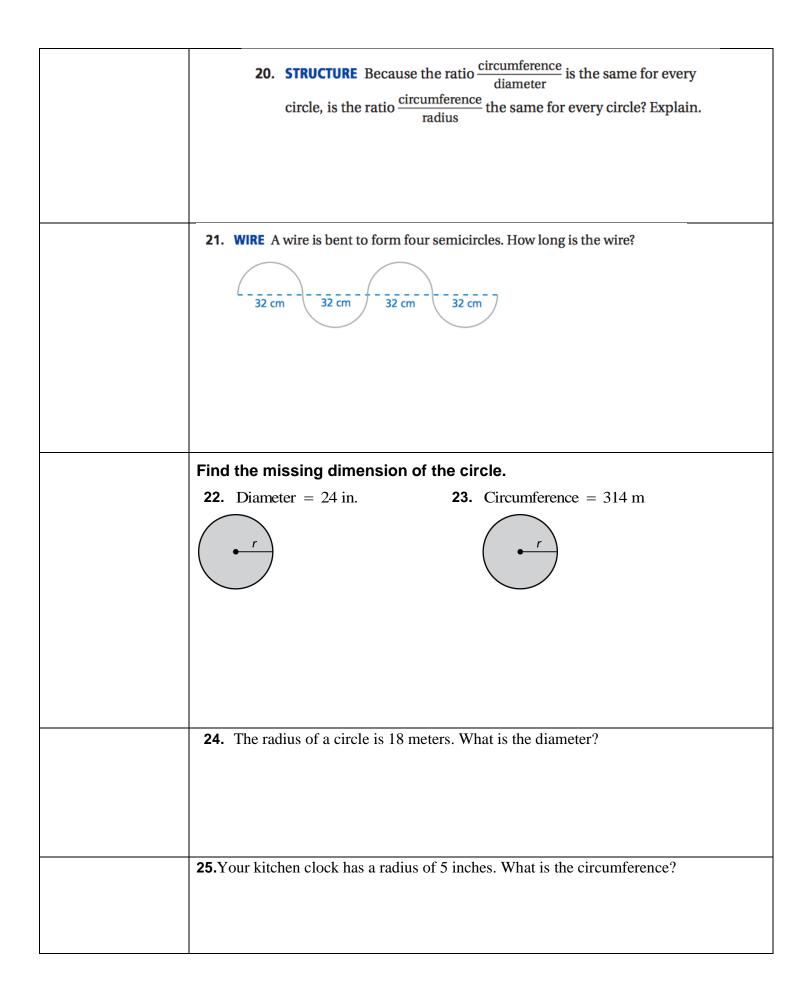
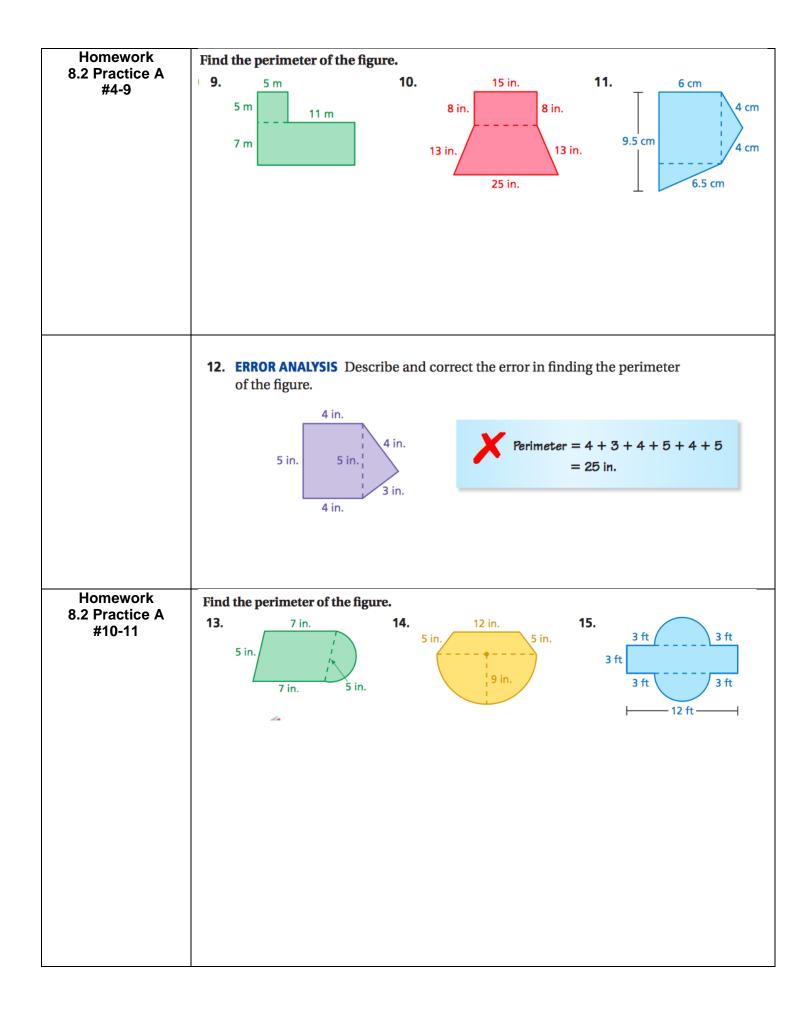
lame	Ms. Abadie's Period		
Chapter 8	Circles and Area		
MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference ar area of a circle.		
Essential Question	How can you find the circumference of a circle? In this lesson I am learning about circles and circumference so I can use them to help me find the circumference of a circle.		
8.1			
Circles and Circumference	A circle is the set of all points in a plane that are the same distance from a point called the center .		
	The radius is the distance from the center to any point on the circle.		
	Radius and Diameter Words The diameter <i>d</i> of a circle is twice the radius <i>r</i> . The radius <i>r</i> of		
	a circle is one-half the diameter <i>d</i> .		
	Algebra Diameter: $d = 2r$ Radius: $r = \frac{d}{2}$		
	The distance around a circle is called the circumference . The ratio $\frac{\text{circumference}}{\text{diameter}}$ is the same for <i>every</i> circle and is represented by the Greek letter π , called pi . The value of π can be approximated as 3.14 or $\frac{22}{7}$.		
	Circumference of a Circle		
	Words The circumference C of a circle is equal to π times the diameter d or π times twice the radius r. Algebra $C = \pi d$ or $C = 2\pi r$		
	Vocabulary and Concept Check		
	 VOCABULARY What is the relationship between the radius and the diameter of a circle? 		
	 WHICH ONE DOESN'T BELONG? Which phrase does not belong with the other three? Explain your reasoning. 		
	the distance around a circle π times twice the radius		
	π times the diameter the distance from the center to any point on the circle		

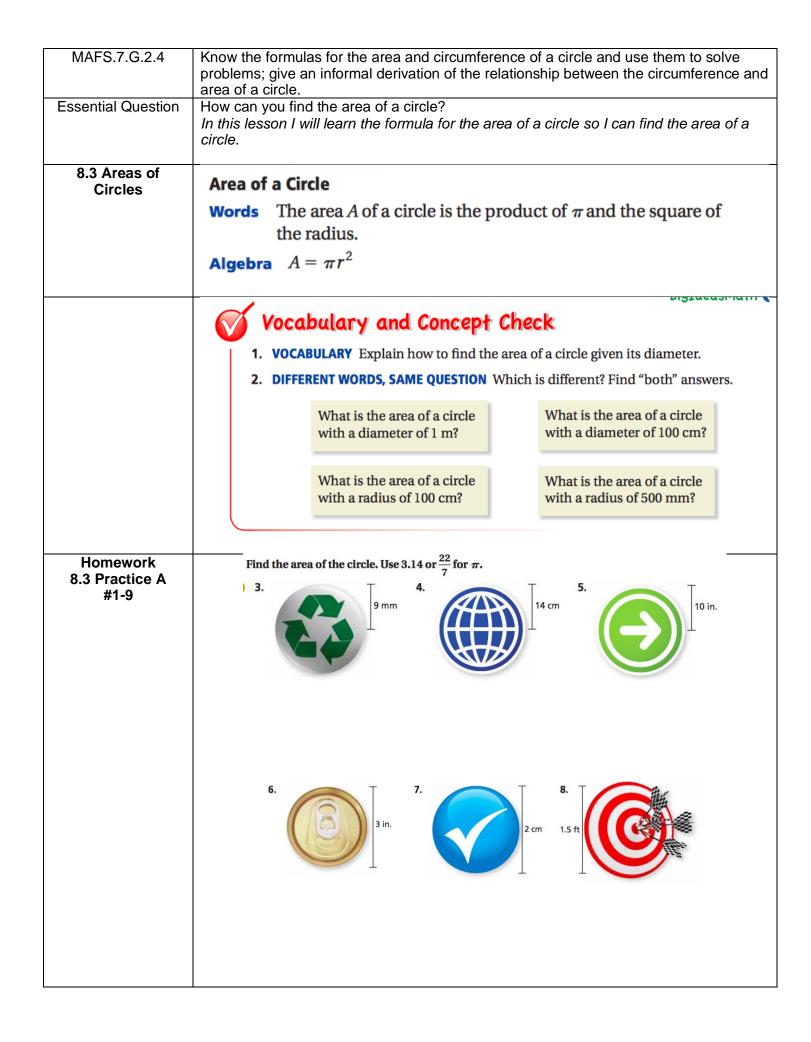


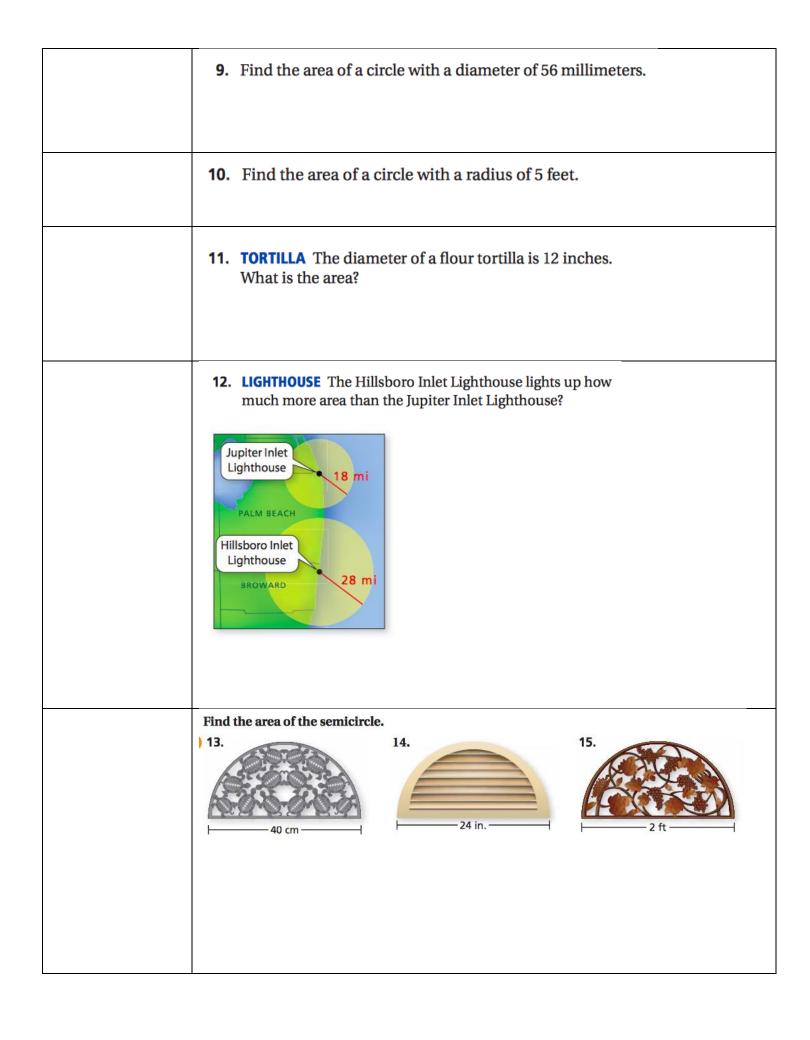


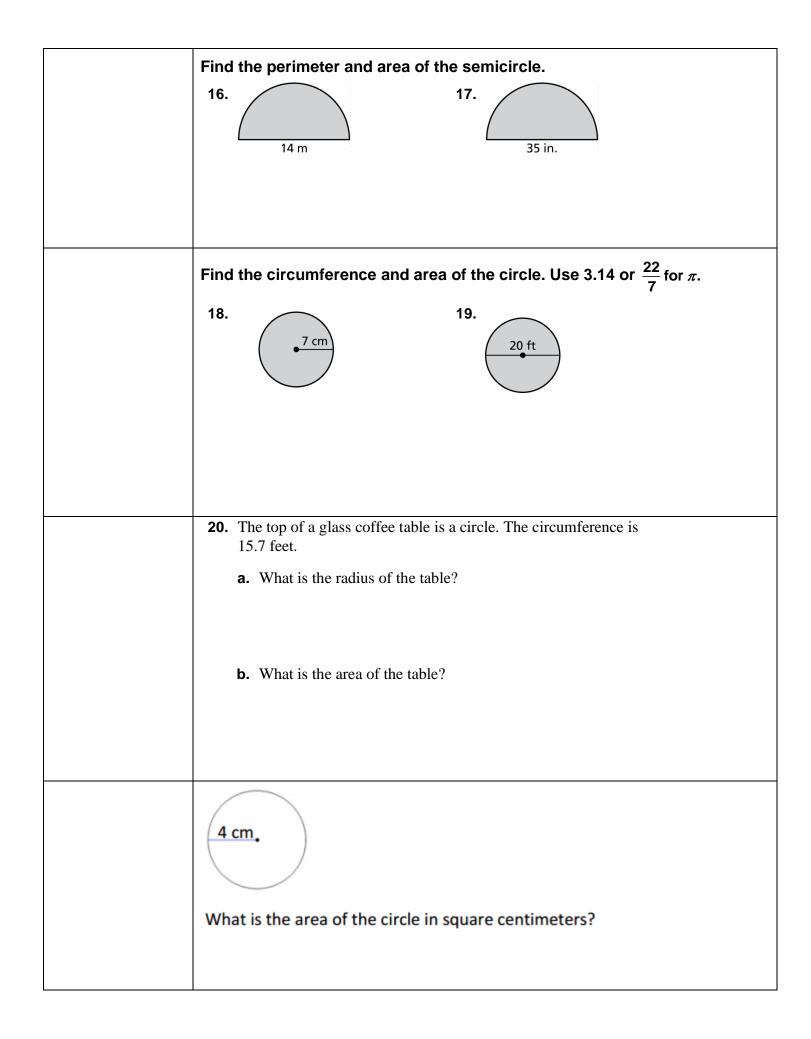


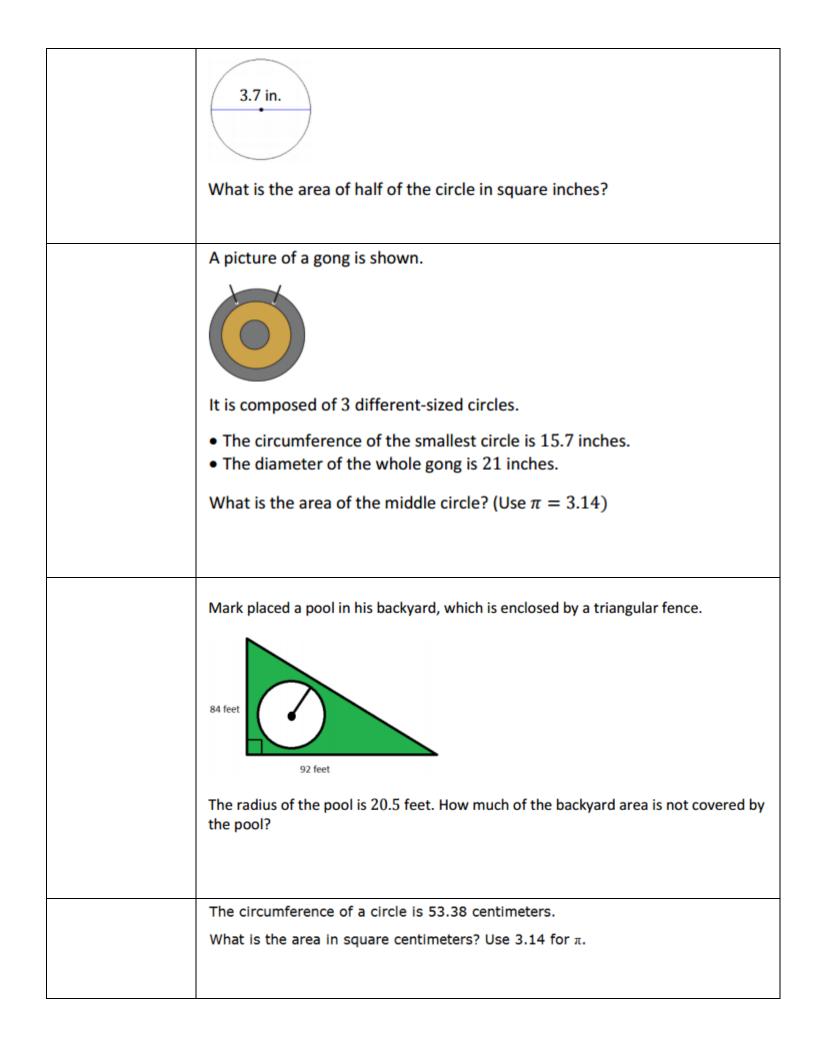
MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
Essential Question	How can you find the perimeter of a composite figure? In this lesson I am learning how to use what I know about perimeter and circumference so I can find the distance around a figure.
8.2 Perimeters of Composite Figures	 Vocabulary and Concept Check 1. REASONING Is the perimeter of the composite figure equal to the sum of the perimeters of the individual figures? Explain. 2. OPEN-ENDED Draw a composite figure formed by a parallelogram and a trapezoid.
Homework 8.2 Practice A	
#1-3	Estimate the perimeter of the figure.











MAFS.7.G.2.6	Solve real-world and mathematical problems involving area, volume ar	nd surface area		
	of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons,			
	cubes, and right prisms.			
Essential Question	How can you find the area of a composite figure?			
	In this lesson I will learn how to use what I know about finding area of basic shapes to find the area of a composite figure.			
8.4 Areas of				
Composite Figures				
	Vocabulary and Concept Check			
	1. REASONING Describe two different ways to find the	_		
	area of the figure. Name the types of figures you used	2 in.		
	and the dimensions of each.			
	2. REASONING Draw a trapezoid. Explain how you can			
	think of the trapezoid as a composite figure to find			
	its area.			
		10 in.		
Homework 8.4 Practice A	Find the area of the figure.			
#1-3	3. 4. 5.			
	6. 7. 8. 8.			
Homework	Find the area of the figure.			
8.4 Practice A	C C			
#4-9	9. 7 cm			
	4 cm 4 cm			
	10 cm 10 cm			
	19 cm			

