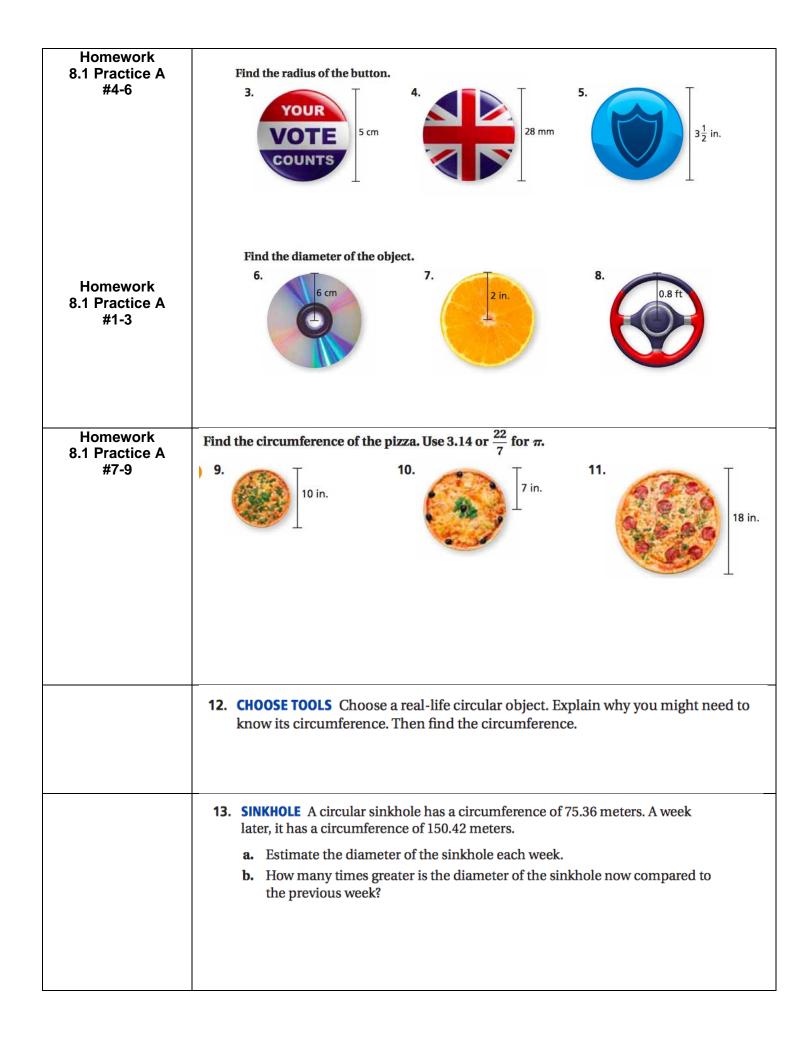
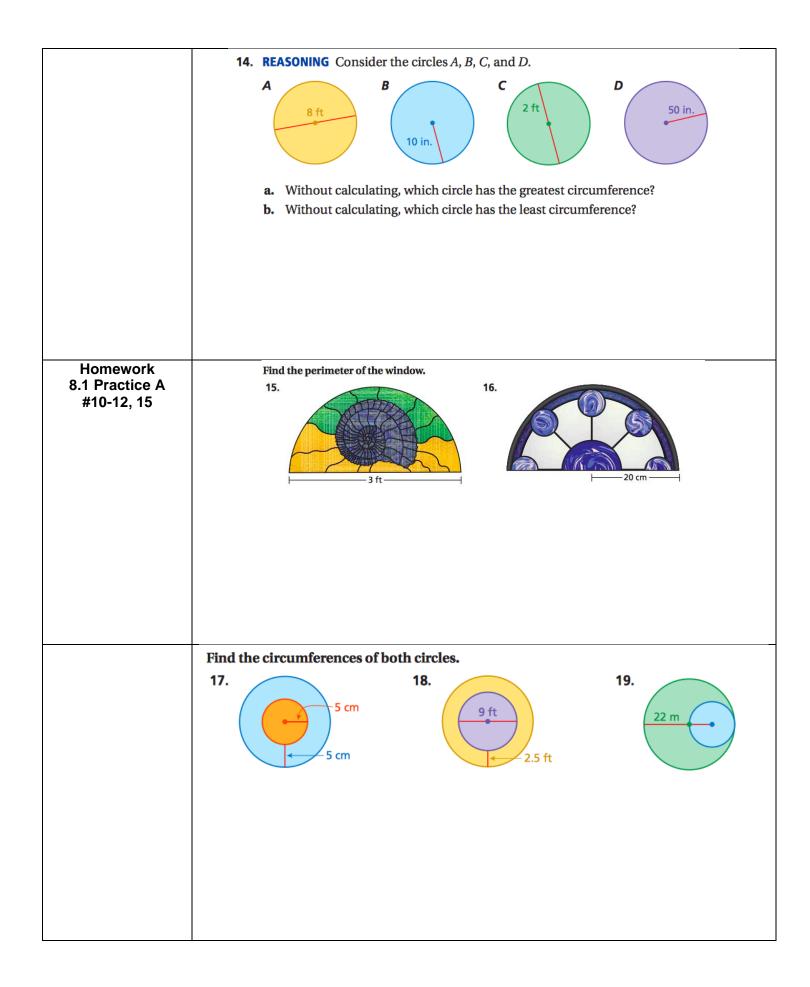
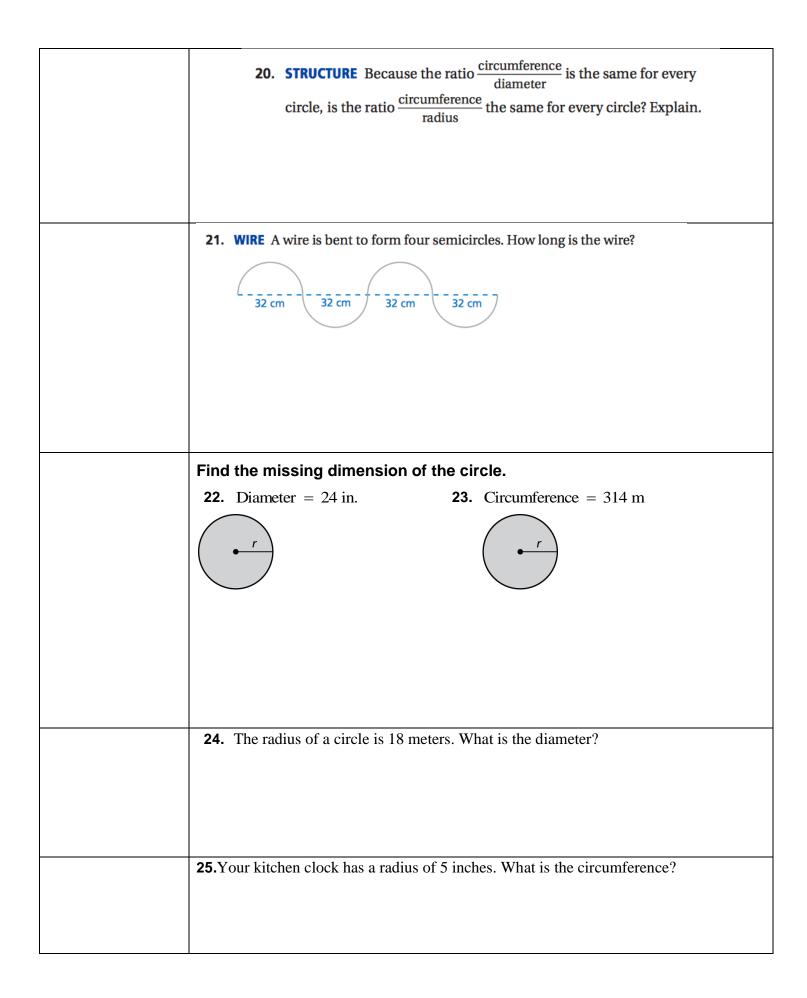
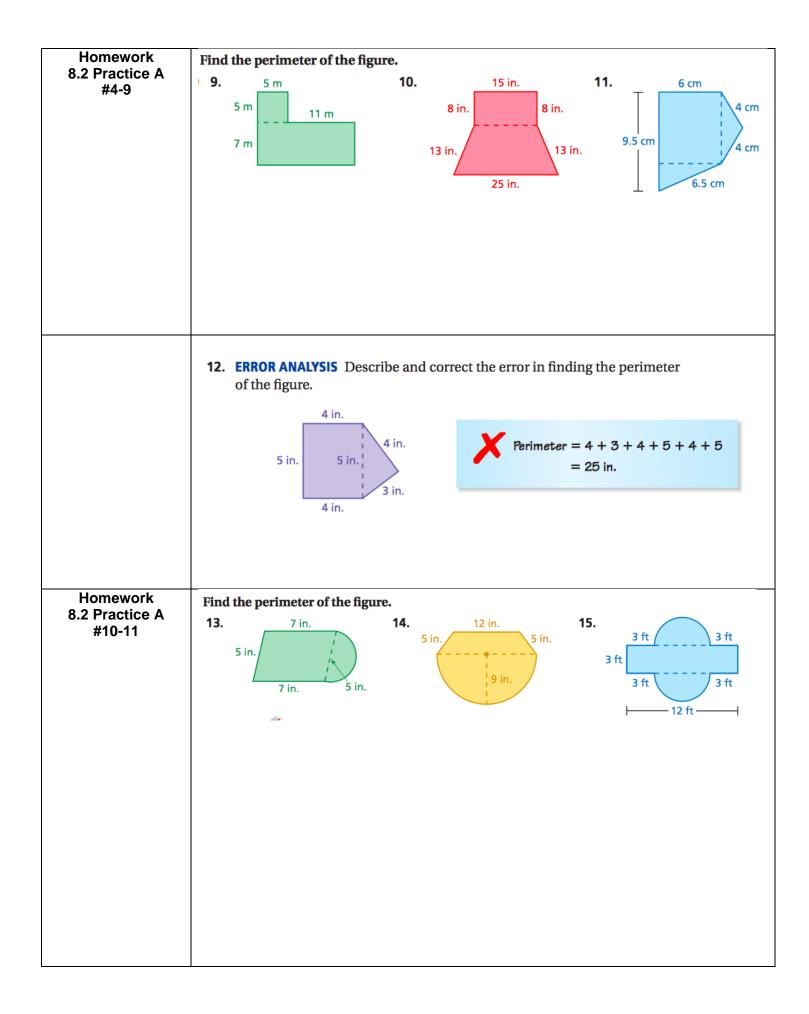
lame	Ms. Abadie's Period		
Chapter 8	Circles and Area		
MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference ar area of a circle.		
Essential Question	How can you find the circumference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

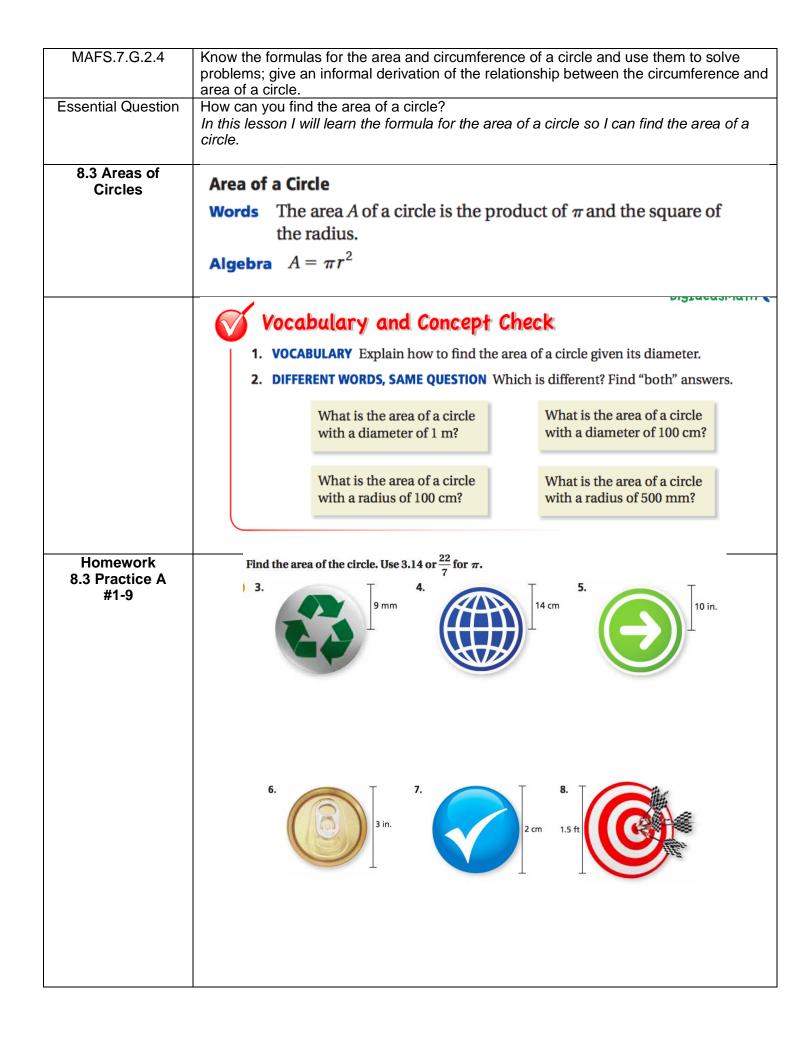


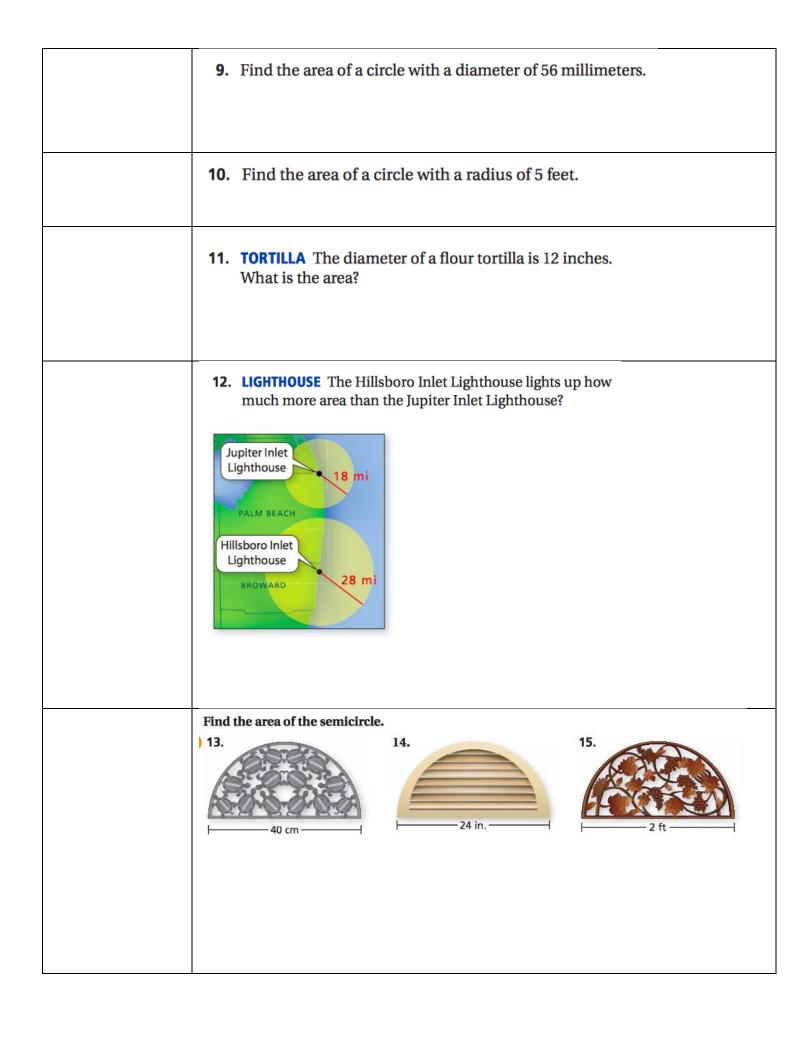


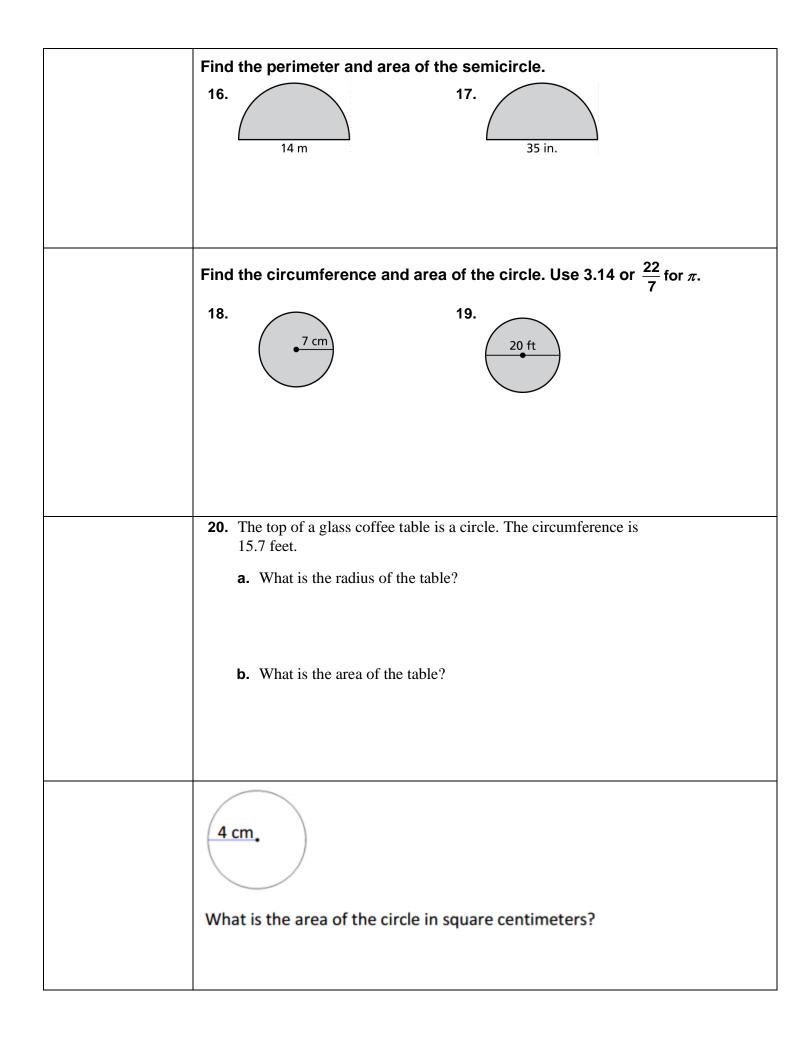


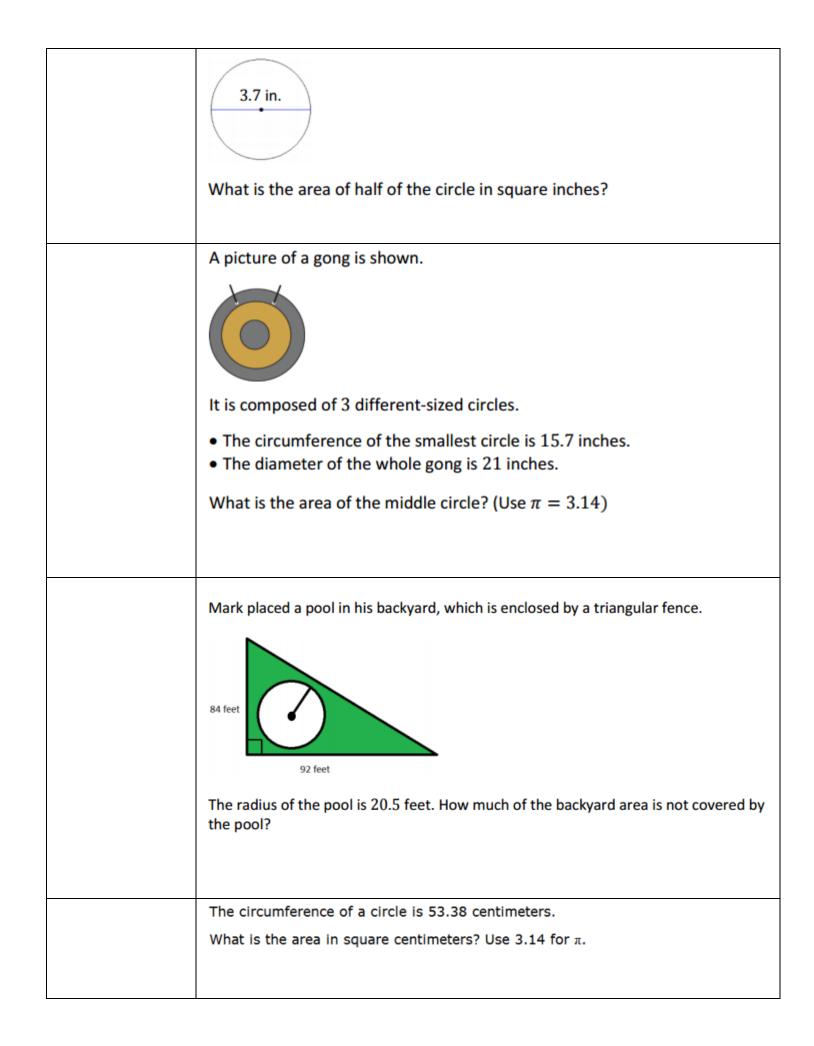
MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
Essential Question	How can you find the perimeter of a composite figure? In this lesson I am learning 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	<ul> <li>Vocabulary and Concept Check</li> <li>1. REASONING Is the perimeter of the composite figure equal to the sum of the perimeters of the individual figures? Explain.</li> <li>2. OPEN-ENDED Draw a composite figure formed by a parallelogram and a trapezoid.</li> </ul>
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			
	<b>1. REASONING</b> 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.			
	<b>2. REASONING</b> 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	<b>9.</b> 7 cm			
	4 cm 4 cm			
	10 cm 10 cm			
	19 cm			

