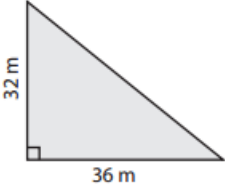

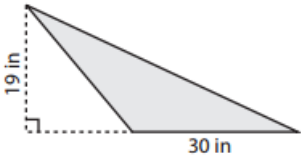
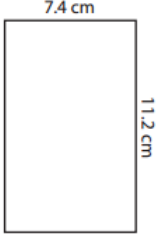
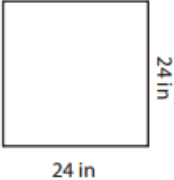
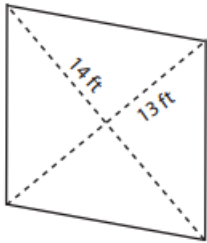
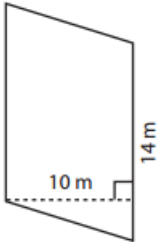
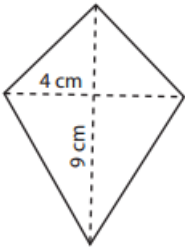
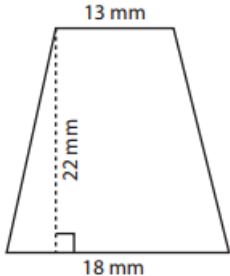


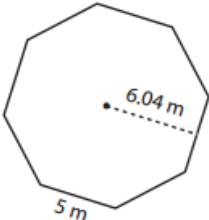

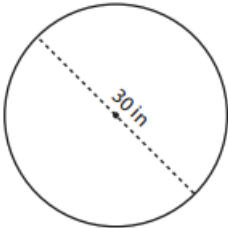
**Algebra 8: Geometry Review****Finding Area:** Find the area of each figure.

Shape Name	Figure	Formula	Calculations	Area
Right Triangle				
Acute Triangle				
Obtuse Triangle				
Rectangle				

<p>Square</p>				
<p>Rhombus <i>(half of the length of each diagonal is given)</i></p>				
<p>Parallelogram</p>				
<p>Kite <i>(the entire length of each diagonal is given)</i></p>				
<p>Trapezoid</p>				

Name \_\_\_\_\_

Period \_\_\_\_\_

<p>Regular Polygon</p>				
<p>Circle with Radius <i>(round your answer to the nearest hundredth)</i></p>				
<p>Circle with Diameter <i>(round your answer to the nearest hundredth)</i></p>				

**Sketching Figures with Given Areas:** Draw each figure, then label its dimensions with values that will give you the specific area.

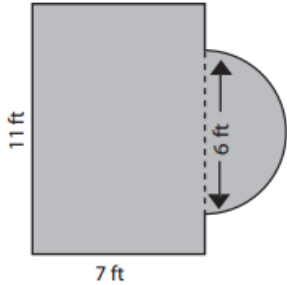
Given Information	Sketch	Formula	Proof
<p>Square</p> <p><math>A = 289 \text{ ft}^2</math></p>			

Name \_\_\_\_\_

Period \_\_\_\_\_

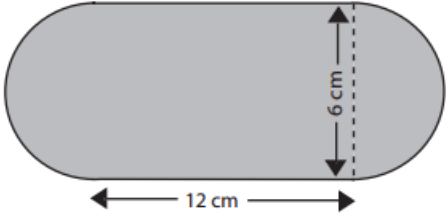

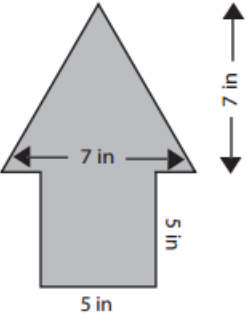
Right Triangle  $A = 15 m^2$			
Circle  $A \approx 254.34 yd^2$			
Regular Polygon  $A = 50 cm^2$			

**Finding the Area of Compound Figures:** A compound figure is a made up of more than one common shape. Use what you know about finding the area of polygons and circles to help you find the area of each compound shape. Round your answers to the nearest hundredth if necessary.

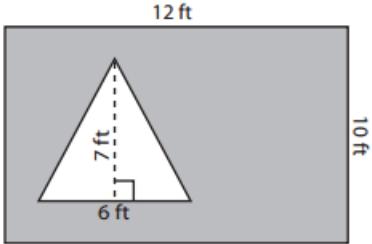
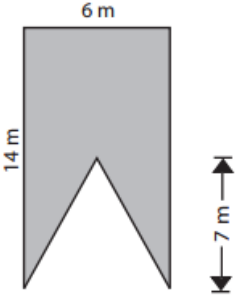
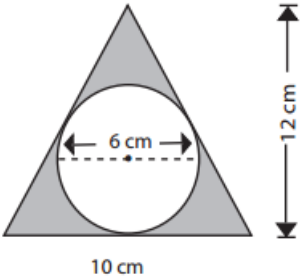
Compound Figure	Shape 1	Shape 2	Total Area
	Shape Name:  Area Formula:	Shape Name:  Area Formula:	Calculations
	Calculations	Calculations	Final Answer

Name \_\_\_\_\_

Period \_\_\_\_\_

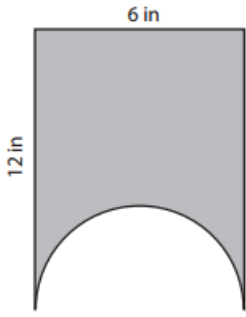
	Shape Name:  Area Formula:	Shape Name:  Area Formula:	Calculations
	Shape Name:  Area Formula:	Shape Name:  Area Formula:	Calculations
	Shape Name:  Area Formula:	Shape Name:  Area Formula:	Calculations
	Calculations	Calculations	Final Answer

**Finding the Area of Compound Figures:** A compound figure is a made up of more than one common shape. Use what you know about finding the area of polygons and circles to help you find the area of each compound shape. Find the area of the shaded region. Round your answers to the nearest hundredth if necessary.

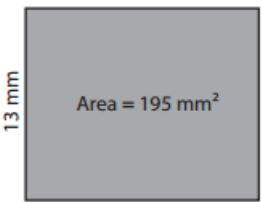
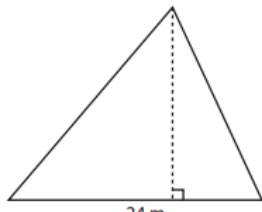
Compound Figure	Shape 1	Shape 2	Total Area
	Shape Name:  Area Formula:	Shape Name:  Area Formula:	Calculations
	Calculations	Calculations	Final Answer
	Shape Name:  Area Formula:	Shape Name:  Area Formula:	Calculations
	Calculations	Calculations	Final Answer
	Shape Name:  Area Formula:	Shape Name:  Area Formula:	Calculations
	Calculations	Calculations	Final Answer


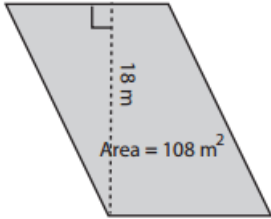
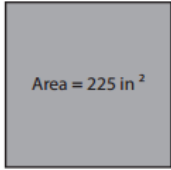
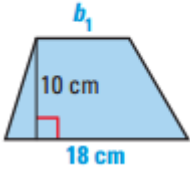
Name \_\_\_\_\_

Period \_\_\_\_\_

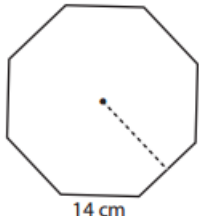
	Shape Name:	Shape Name:	Calculations
	Area Formula:	Area Formula:	
	Calculations	Calculations	Final Answer

**Working Backwards with Area Formulas:** Area formulas can be used to calculate area, but they can also be used to find other variables in the formulas. Use the given areas and your equation solving skills to calculate the missing values.

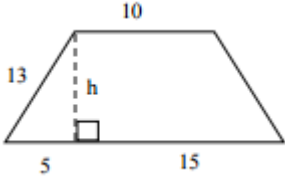
Shape Name	Figure/ Formula	Calculations	Value of Variable
Rectangle <i>Find the base.</i>			
	Formula		
Triangle <i>Find the base.</i>			
	Formula		

<p>Circle</p> <p><i>Find the radius.</i></p>			
<p>Parallelogram</p> <p><i>Find the height.</i></p>			
<p>Square</p> <p><i>Find the side.</i></p>			
<p>Trapezoid</p> <p><i>Find the height.</i></p>	<p><math>A = 135 \text{ cm}^2</math></p> 		
	<p><b>Formula</b></p>		



<p>Regular Polygon</p> <p><i>Find the apothem.</i></p>	 <p>14 cm</p> <p>Area = 946.4 cm<sup>2</sup></p>		
<p><b>Formula</b></p>			

**Pythagorean Theorem and Area:** When you do not have all of the information you need to calculate the area of a figure, the Pythagorean Theorem can be a useful tool. Use the Pythagorean Theorem to help you find the areas of the trapezoids.

Figure/ Formula	Find the Height	Calculations	Area
			
<p><b>Formula</b></p>			