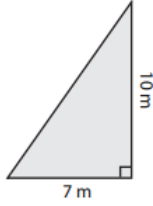
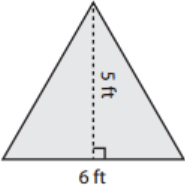
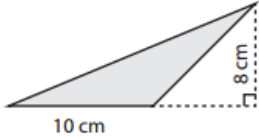



Name \_\_\_\_\_

Period \_\_\_\_\_


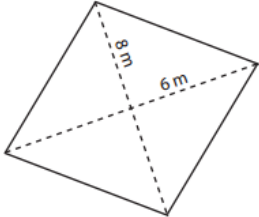
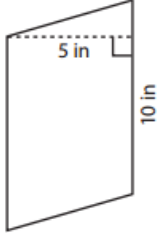
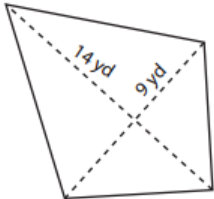
### Algebra 8: Geometry Unit Day 1

**Finding Area:** Find the area of each figure.

Shape Name	Figure	Formula	Calculations	Area
Right Triangle	 <p>A right-angled triangle with a horizontal base of 7 m and a vertical height of 10 m. A small square at the bottom-right corner indicates the right angle.</p>			
Acute Triangle	 <p>An acute triangle with a horizontal base of 6 ft. A dashed vertical line from the top vertex to the base represents the height, which is 5 ft. A small square at the base of the dashed line indicates a right angle.</p>			
Obtuse Triangle	 <p>An obtuse triangle with a horizontal base of 10 cm. A dashed vertical line from the top vertex to the extension of the base represents the height, which is 8 cm. A small square at the base of the dashed line indicates a right angle.</p>			
Rectangle	 <p>A rectangle with a horizontal length of 3 yd and a vertical width of 6 yd.</p>			

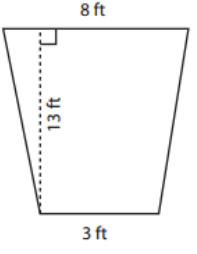
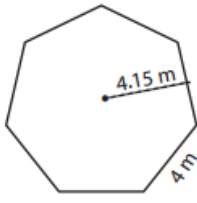
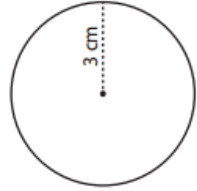
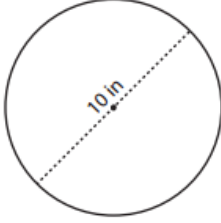
Name \_\_\_\_\_

Period \_\_\_\_\_

Shape Name	Figure	Formula	Work	Area
Square				
Rhombus <i>(half of the length of each diagonal is given)</i>				
Parallelogram				
Kite <i>(the entire length of each diagonal is given)</i>				

Name \_\_\_\_\_

Period \_\_\_\_\_

Shape Name	Figure	Formula	Work	Area
Trapezoid				
Regular Polygon				
Circle with Radius <i>(round your answer to the nearest hundredth)</i>				
Circle with Diameter <i>(round your answer to the nearest hundredth)</i>				

Name \_\_\_\_\_

Period \_\_\_\_\_

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

Given Information	Sketch	Formula	Proof
Square $A = 49 \text{ ft}^2$			
Right Triangle $A = 50 \text{ m}^2$			
Circle $A \approx 28.26 \text{ yd}^2$			
Regular Polygon $A = 24 \text{ cm}^2$			

Name \_\_\_\_\_

Period \_\_\_\_\_

Trapezoid $A = 30 \text{ ft}^2$			
Kite $A = 20 \text{ mi}^2$			
Parallelogram $A = 150 \text{ km}^2$			