<b>Geometry – Unit 10 Practice</b>
What is a Circle?

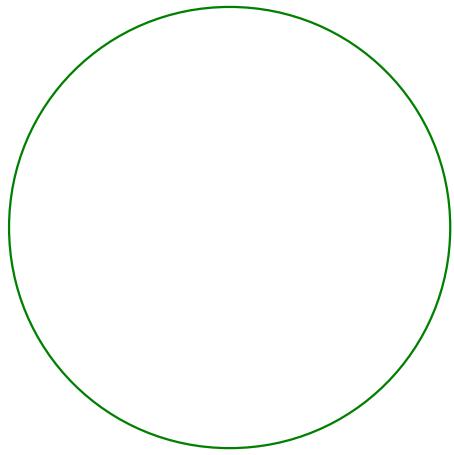
Review

Name:
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Why are circles important in our lives? What are some applications of circles in our world today?

Let's investigate: Cut out the figure below:



- 1) Look at the shape you are holding. It is a \_\_\_\_\_\_
  - Let's play a game... called TABOO.

**Taboo** is a word guessing party game published by Hasbro in 1989. The objective of the game is for a player to have their partners guess the word on the player's card without using the word itself or five additional words listed on the card. Describe a circle without using the following terms:

- o Round
- o Diameter
- o Center
- o Radius
- o Equidistant

This figure			

- 2) Look at the outer edge of your circle. What is the distance around the outside of the circle called?
- 3) Fold your circle exactly in half and crease it well.
- **4)** Open the circle, the crease you made is the \_\_\_\_\_ of the circle.
- 5) Hold the circle at the ends of the crease. Fold your circle in half again, but this time match up the end points of the previous crease.





**6)** Open your circle, is this also a diameter? **YES / NO** How do you know?

	Do the lines intersect? YES / NO					
	Is there something special about the angles created when these lines intersect?					
	This special type of intersection is called					
7)						
_	the of the circle.					
8)	Using your pencil, trace one of the lines from the center to the edge of the circle. This line from the					
	center is called a					
9)	Fold in one of the outer, curved edges of the circle until it just touches the dot in the middle. Crease it					
	well.					
10	) Open the fold and look at the crease you just made.					
	Is it a diameter? YES / NO					
	Why or why not?					
	Is it a radius? YES / NO					
	Why or why not?					
	This line is called a					
11	Look at the curved part of the circle between the points where this line touches the outside of the					
	circle. This is called an					
	Can you find more of these on your circle?					
12	) Take the opposite side of your circle and fold it so that the curved part just touches the center and the					
	bottom forms a perfect point. Your circle will look like an ice cream cone. Crease it well.					
13	) Fold the top of your ice cream cone down until the curved part just touches the center of the circle.					
The top corners should make perfect points, crease well. Now describe the shape you have.						
Do you notice anything special about this triangle? Look at all of the angles, they are all e						
	all of the sides are congruent.					
	This triangle is called You can also use the term					
	Both of these triangles can be classified as triangles because					
	·					
14	) Fold the new triangle in half by matching up two of the points. Crease well. The new cease splits the					
	triangle in half; this line is called the or					
	Do you notice anything else about this triangle? It is a triangle.					
	Open the triangle up to the equilateral triangle.					
16	Take the top corner of the big triangle and fold it. By folding along the crease of the height you can					
	match the top point up to the bottom crease line. On the inside you will now see three smaller					
	triangles.					
17	Turn the paper over so that you do not see the creases. What is this shape called? Since it has four					
	sides it can be classified as a					
	Two sides that are and two that are not. It is also called a					
18	Turn it back over so that you now see all of the creases. Fold one of the outer triangles in so that it lies					
	directly on top of the center triangle. Turn it back over and describe the shape you now see. In					
	mathematics this shape is called a					
19	Turn your shape back over and fold the last outer triangle over onto the center one again. You should					
	now have a smaller equilateral triangle.					

Practice – Unit 10 (cont.)

	ngles. Bring the three loose points together so that you now and not a squared pyramid like
those built in Egypt.	and not a squared pyramia like
<b>21)</b> Open your pyramid back up to the	large equilateral triangle
	it just touches the dot in the middle. What shape have you re-
23) Fold one more of the points in so t	hat it just touches the dot in the middle. Now what shape do you
	n though it is not the traditional shape you are accustomed to, it still
has five sides.	
<b>24)</b> Now fold in the last point. What sh	ape is it now?
may have to try more than one. Ch	of the corners into a flap on the opposite side of the triangle. You noose the one that makes the best fit. Slide the last corner now created a truncated tetrahedron!
NOW:	
What is a Circle?	
What geometric shapes can be constructe	ed from a circle?
What is the difference between a 2D and 3	3D figure?