MATH NEWS

Volume 5

2nd Grade Math Unit 5

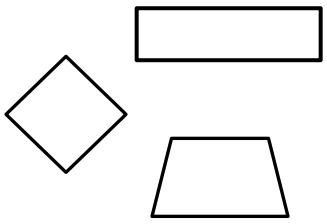
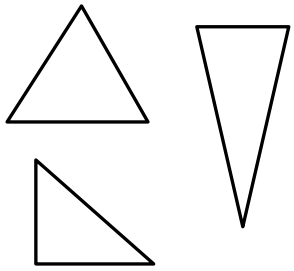
3rd 9 Weeks

Unit 5 Goals:

- Recognize and draw shapes having specified attributes.
- Partition circles and rectangles into two, three, or four equal shares.

Words to know:

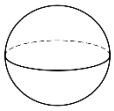
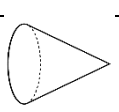
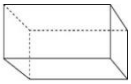
Attributes- a characteristic of an object, such as color, shape, size, etc.
Angle- a plane figure formed by two rays that share an endpoint.
Face- a surface of a solid figure.
Fraction- a way to describe a part of a whole.
Polygon- a closed plane figure formed from line segments that meet only at their endpoint.
Quadrilateral- a four-sided polygon.
Scale- the numbers that show the units used on a graph.
Vertex- the point at which two line segments, lines, or rays meet to form an angle.

Students will describe attributes of two-dimensional shapes.	
4 sides and 4 angles: 	3 sides and 3 angles: 

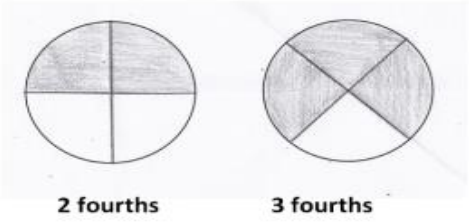
Name the Shape:	
I am a 2D shape. **My 4 sides are equal.** **I have no right angles.** **What am I?**	**I am a 2D shape.** **I have 5 sides.** **I have 5 angles.** **What am I?**
I am a 3D shape. **I have a circular base and another curved face.** **What am I?**	**I am a 3D shape.** **I have 6 identical faces.** **Each face is a square.** **What am I?**

Attributes of Shapes

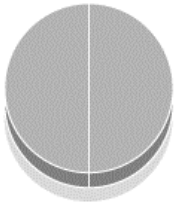
This list is not intended for memorization. It is a guide to help you understand the language of the classroom.

Two-dimensional shapes		
Quadrilateral	A four-sided polygon.	
Trapezoid	A quadrilateral with at least two parallel sides.	
Square	A parallelogram with four congruent sides and four right angles.	
Hexagon	A polygon with six sides.	
Rhombus	A parallelogram with all four sides equal in length.	
Triangle	A polygon with three angles and three sides.	
Rectangle	A quadrilateral with two pairs of congruent, parallel sides and four right angles.	
Pentagon	A polygon that has five sides.	
Three-dimensional shapes		
Cube	A regular solid with six congruent faces.	
Sphere	A solid figure made up of all points that equally distant from a point called the center.	
Cylinder	A solid figure with two parallel and congruent circles as bases, one curved surface, and no vertices.	
Cone	Solid figure with one curved surface, one flat surface, and one vertex.	
Rectangular Prism	A prism with six rectangular faces.	

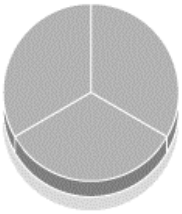
Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of and describe the whole as two halves, three thirds, four fourths.



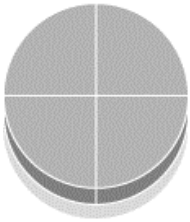
Students will describe a whole by the number of equal parts including 2 halves, 3 thirds, and 4 fourths.



Two halves



Three thirds



Four fourths

Students will recognize that equal shares of identical wholes need not have the same shape.
Which shapes are correctly split into fourths?