MATH NEWS

Unit 5

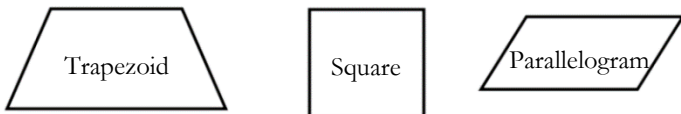## UNIT 5 GOAL:

➢ Understand that shapes in different categories may share attributes, and that the shared attributes can define a larger category.
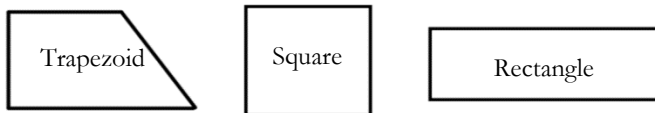
Unit 5: Geometry

Students will learn that different shapes have shared attributes that can fall into a larger category. For example: a rectangle is also a quadrilateral and a polygon.

All of the following shapes have one or more sets of parallel lines. They are all quadrilaterals.

Trapezoid   Square   Parallelogram

All of the following shapes have one or more sets of parallel lines. They are all quadrilaterals. They all have at least two right angles.

Trapezoid   Square   Rectangle

Unit 5 Vocabulary

Quadrilateral – a polygon with four sides.
Polygon – a closed plane figure with sides made up of line segments.
Attribute – any characteristic of a shape, including properties and other characteristics.
Classify – to put things into groups.
Congruent Figures – figures that have the same size and shape.
Hexagon – a polygon with six sides.
Octagon – a polygon with 8 sides.
Parallel – two lines that are the same distance apart everywhere.
Parallelogram – a quadrilateral with both pairs of opposite sides parallel.
Pentagon – a polygon with 5 sides.
Rectangle – a parallelogram that has 4 right angles.
Rhombus – a parallelogram with equal sides.
Right Angle – An angle that measures 90˚.
Square – a parallelogram with four sides of the same length and four right angles.
Trapezoid – a quadrilateral with at least one pair of parallel sides.
Triangle – a polygon with 3 sides.

Common misconception concerning squares

Some third graders identify a square as a "non-rectangle" or a "non-rhombus" and may not understand that a square **is** a rectangle because it has all of the attributes of a rectangle (four sides, opposite sides parallel, opposite sides congruent, four right angles). Too often, students develop the misconception that a rectangle has to have two long sides and two short sides. Some children may be able to tell the attributes of each shape separately, but may not figure out the relationships between the shapes.

Skills to continue practicing

- Multiplication facts to build fluency
- Division facts to build fluency
- Telling time to the nearest minute
- Working with elapsed time

Refer to previous unit newsletters for additional information.

Images from Lafayette Parish School System