

Fifth Grade Math

This packet includes four sections that cover some of the major content of 5th grade math. Each section includes notes and practice for each topic. For additional support, visit KCS TV on YouTube for instructional videos that accompany each section.

The following content is included in this packet:

		То	pic	
	I. Classify Two- dimensional Figures	II. Operations with Whole Numbers and Decimals	III. Operations with Fractions	IV. Relate Volume to Multiplication
Activity 1	Identify Attributes of Two- dimensional Figures	Dividing Whole Numbers	Add & Subtract Fractions	Using Unit Cubes to Find Volume
Activity 2	Classifying Two- dimensional Figures	Multiplying Decimals	Multiplying Fractions	Using the Formula for Volume
Activity 3		Dividing Decimals		

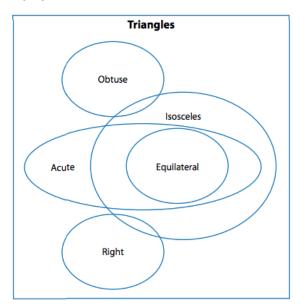


Objective: Classify two-dimensional figures in a hierarchy based on properties.

Polygons are grouped into categories by their **attributes**, or properties, such as the number of sides or angles, the side lengths, and the angle measures. All polygons in the same category share certain properties. Some properties of polygons are described in the table below.

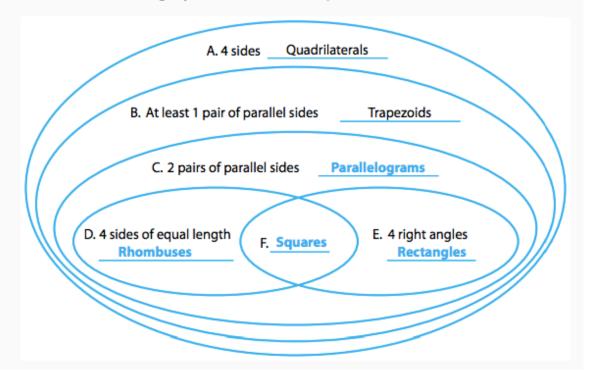
Property	Description	Example
Scalene	no sides of equal length	
Isosceles	at least 2 sides of equal length	Δ
Equilateral	all sides of equal length	\triangle
Regular	all sides of equal length and all angles of equal measure	\Diamond
Irregular	at least 1 side and 1 interior angle are not equal in measure to the other sides and angles	\bigcirc
Right	at least 1 pair of perpendicular sides	
Parallel sides	at least 1 pair of opposite sides that will never intersect, no matter how far they are extended	

A Venn diagram is a useful tool for organizing categories of polygons that share properties.



The Venn diagram shows a triangle can never be both right and obtuse.

The Venn diagram shows categories of quadrilaterals with different properties. Write the name of each category that fits the description.



Category	Properties	Name
Α	4 sides	Quadrilaterals
В	4 sides, at least 1 pair of parallel sides	Trapezoids
С	4 sides, 2 pairs of parallel sides	Parallelograms
D	4 sides, 2 pairs of parallel sides, 4 sides of equal length	Rhombuses
E	4 sides, 2 pairs of sides that are parallel and of equal length, 4 right angles	Rectangles
F	4 sides, 2 pairs of parallel sides, 4 sides of equal length, 4 right angles	Squares

Identify Attributes of Two-dimensional Figures Solve.

Mark an X in the column if the shape always has that property.

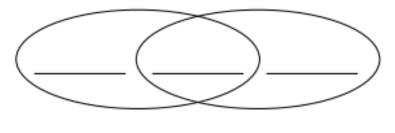
Shape	4 sides	2 pairs of parallel sides	4 right angles
parallelogram			
rectangle			
quadrilateral			

Use the table in problem 3 to make a flow chart that shows the relationship between the three shapes. Order the shapes from general to specific going from left to right.



Where would you include squares in the flow chart in problem 4? Explain.

Fill in the Venn diagram that shows the relationship between rectangles, squares, and rhombuses. Explain what the diagram shows about squares.







rectangle



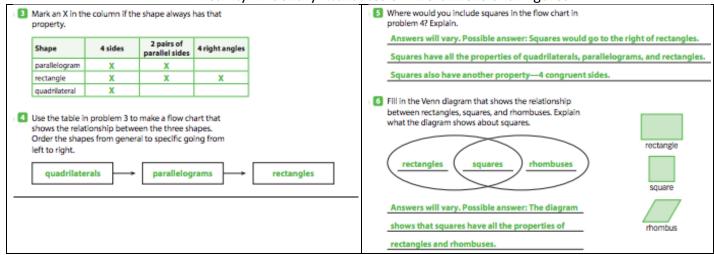


1	the word bank a. An equilar	h sentence with one of the wo k in order to make each senten teral triangle			always sometimes never	
2	 b. A right tria properties c. A right tria properties Look at the Ve 	erties of an isosceles triangle. angle shares with an isosceles triangle. angle shares with an obtuse triangle. enn diagram in the example. Do about the relationship between al triangles.	es escribe			
di qu tr in	liagram showin uadrilaterals: p rapezoids, and	tion in the table to fill in the to g the hierarchy of the following arallelograms, squares, rhomb rectangles. Remember, each of has all the properties of the co	ng ouses, category	Qu	adrilaterals	
di qu tr in al	liagram showin uadrilaterals: p rapezoids, and n the hierarchy	g the hierarchy of the following arallelograms, squares, rhomb rectangles. Remember, each o	ng ouses, category	Qui	adrilaterals	
di qu tr in al	liagram showin uadrilaterals: p rapezoids, and n the hierarchy bove it.	g the hierarchy of the following arallelograms, squares, rhomb rectangles. Remember, each of has all the properties of the c	ng ouses, category	Qui	adrilaterals	
di qu tr in al	liagram showin uadrilaterals: p rapezoids, and n the hierarchy bove it.	g the hierarchy of the following arallelograms, squares, rhombrectangles. Remember, each chas all the properties of the components.	ng ouses, category	Qua	adrilaterals	
di qu tr in al s	liagram showin quadrilaterals: p rapezoids, and n the hierarchy bove it. Shape parallelograms squares rhombuses	g the hierarchy of the following arallelograms, squares, rhombrectangles. Remember, each chas all the properties of the complete. Properties 2 pairs of parallel sides 4 equal sides, 4 right angles 4 equal sides	ng ouses, category	Qui	adrilaterals	
di qu tra in ali s r	liagram showin juadrilaterals: p rapezoids, and n the hierarchy bove it. Shape parallelograms squares rhombuses trapezoids	g the hierarchy of the following arallelograms, squares, rhombrectangles. Remember, each of has all the properties of the comparison of parallel sides 4 equal sides, 4 right angles 4 equal sides at least 1 pair of parallel sides	ng ouses, category	Qua	adrilaterals	
di qu tr in al s r t t	liagram showing uadrilaterals: prapezoids, and in the hierarchy bove it. Shape parallelograms squares rhombuses trapezoids rectangles	g the hierarchy of the following arallelograms, squares, rhombrectangles. Remember, each chas all the properties of the complete. Properties 2 pairs of parallel sides 4 equal sides, 4 right angles 4 equal sides	ng buses, category ategory	Qui	adrilaterals	
di qu tr in al s r t t	liagram showing uadrilaterals: prapezoids, and the hierarchy bove it. Shape parallelograms squares rhombuses trapezoids rectangles explain what the bout the relations and the relations is a square to the relations and the relations is a square to the relations and the relations is a square to the relations and the relations is a square to the relations is a sq	g the hierarchy of the following arallelograms, squares, rhomber rectangles. Remember, each of has all the properties of the comparison of parallel sides 4 equal sides, 4 right angles 4 equal sides at least 1 pair of parallel sides 4 right angles e tree diagram in problem 3 sides	ng buses, category ategory	Qui	adrilaterals	
di qu tr in al s r t t	liagram showing uadrilaterals: prapezoids, and the hierarchy bove it. Shape parallelograms squares rhombuses trapezoids rectangles explain what the bout the relations and the relations is a square to the relations and the relations is a square to the relations and the relations is a square to the relations and the relations is a square to the relations is a sq	g the hierarchy of the following arallelograms, squares, rhomber rectangles. Remember, each of has all the properties of the comparison of parallel sides 4 equal sides, 4 right angles 4 equal sides at least 1 pair of parallel sides 4 right angles e tree diagram in problem 3 sides	ng buses, category ategory	Qui	adrilaterals	
di qu tr in al s r t t	liagram showing uadrilaterals: prapezoids, and the hierarchy bove it. Shape parallelograms squares rhombuses trapezoids rectangles explain what the bout the relations and the relations is a square to the relations and the relations is a square to the relations and the relations is a square to the relations and the relations is a square to the relations is a sq	g the hierarchy of the following arallelograms, squares, rhomber rectangles. Remember, each of has all the properties of the comparison of parallel sides 4 equal sides, 4 right angles 4 equal sides at least 1 pair of parallel sides 4 right angles e tree diagram in problem 3 sides	ng buses, category ategory	Qui	adrilaterals	

Answer Key

I. Classify Two-dimensional Figures





Activity 2: Classify Two-dimensional Figures

