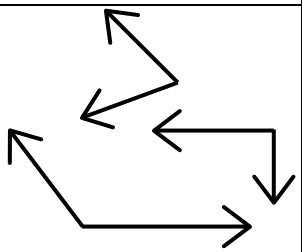
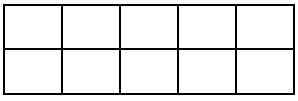
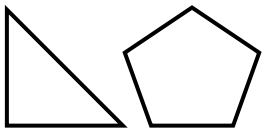
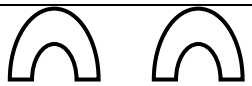
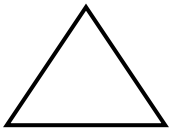
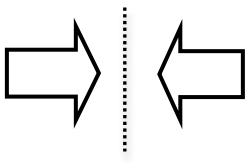
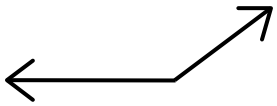
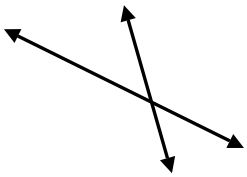
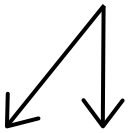
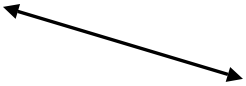
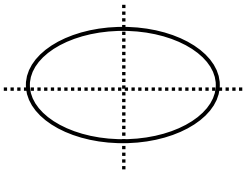
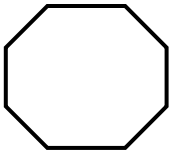
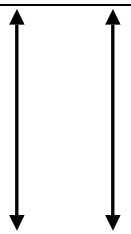
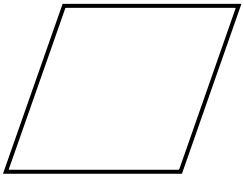
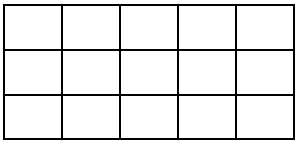
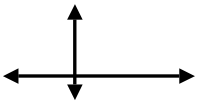
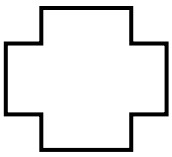
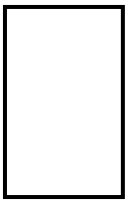
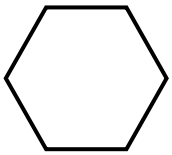
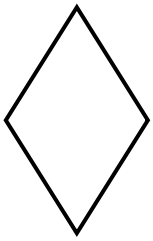
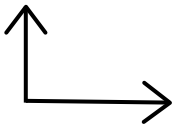
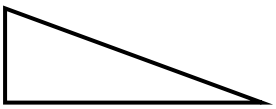
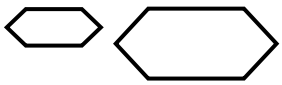
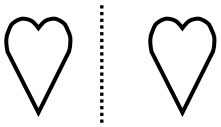
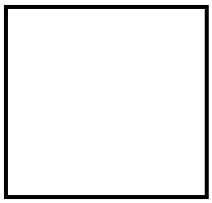
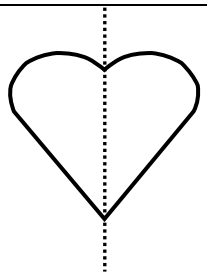
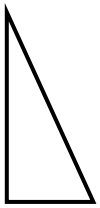
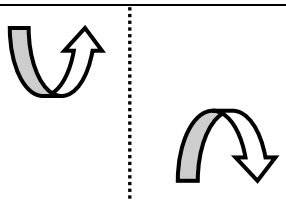
Geometry Vocabulary

Shape	Examples	Definition
angles		• when lines, line segments, or rays intersect they form one or more angles • angles are measured in degrees
area	 2x5=10 sq. units	• the amount of surface area • measured in square units (e.g., in., ft, yd, m, cm) • *find the area by multiplying base times height*
closed figure		• a 2-D shape with sides that begin and end at the same point
congruent		• same size, same shape • equal • equivalent
equilateral triangle		• all sides congruent (equivalent) • all angles congruent (equivalent)
figure		• any shape
flip / reflection		• moving the figure results in a mirror image • reflection occurs over a line of symmetry

greater than right angle (obtuse angle)		• an angle measuring greater than 90 degrees
intersecting lines		• when lines, line segments, or rays cross to form two or more angles
isosceles triangle		• 2 sides congruent (equivalent) • 2 angles congruent (equivalent)
less than right angle (acute angle)		• an angle measuring less than 90 degrees
line		• straight • goes on forever in both directions
line of symmetry		• the line that divides something in half so that one half is the mirror image of the other half
line segment		• part of a line with endpoints
octagon		• a polygon with 8 straight sides • 8 angles
open figure	**C**	• a 2-D shape with sides that do **not** begin and end at the same point

parallel lines		• when two lines, line segments, or rays are equidistant apart from each other • lines that never intersect
parallelogram		• quadrilateral with 2 sets of parallel sides • opposite sides are congruent (equivalent)
pentagon		• a polygon with 5 sides • 5 angles
perimeter	 3+5+3+5=16 units or (2x3)+(2x5)=16 units	• a path that surrounds an area • the sum of the sides of a polygon • *find the perimeter by adding the lengths of all the sides*
perpendicular		• when two lines, line segments, or rays intersect and create a right angle(s)
polygon		• a 2-D shape that has three or more straight sides
quadrilateral		• a polygon with 4 straight sides • 4 angles • closed figure
ray		• has one endpoint and goes on forever in one direction

rectangle		• a quadrilateral with 2 sets of parallel sides • 4 right angles • opposite sides congruent (equivalent)
regular polygon		• a polygon with all sides congruent (equivalent) • all angles congruent (equivalent)
rhombus		• a quadrilateral with 2 sets of parallel sides • all sides congruent (equivalent) • opposite angles congruent (equivalent)
right angle		• an angle measuring **exactly** 90 degrees
right triangle		• 3 straight sides • 1 right angle
scalene triangle		• **no** sides congruent (equivalent) • **no** angles congruent (equivalent)
similar		• same shape, but a different size
slide / translation		• moving a shape without turning or flipping it

square		• a quadrilateral with 2 sets of parallel sides • 4 right angles • all sides congruent (equivalent)
symmetry		• when a figure can be cut into two equal halves • a line where a reflection would complete the figure in a mirror image
trapezoid		• exactly1 set of parallel sides • 4 straight sides
triangle		• 3 straight sides • 3 angles • closed figure
turn / rotation		• one point of the figure is fixed, and the rest of the figure rotates around that point, resulting in a new orientation