

Name _____

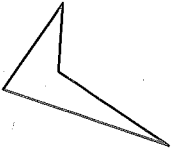
Describe Plane Shapes

COMMON CORE STANDARD CC.3.G.1

Reason with shapes and their attributes.

Write how many line segments the shape has.

1.



4 line segments

2.



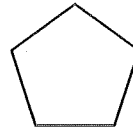
_____ line segments

3.



_____ line segments

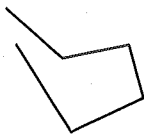
4.



_____ line segments

Write whether the shape is *open* or *closed*.

5.



6.



Problem Solving

REAL WORLD

7. Carl wants to show a closed shape in his drawing. Show and explain how to make the drawing a closed shape.



8. The shape of a fish pond at a park is shown below. Is the shape open or closed?



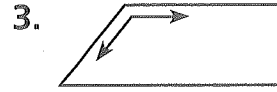
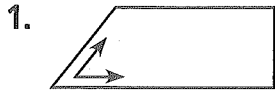
Name _____

Describe Angles in Plane Shapes

COMMON CORE STANDARD CC.3.G.1

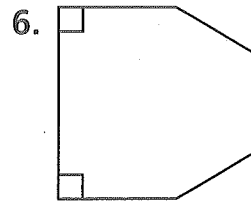
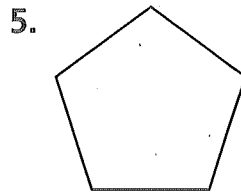
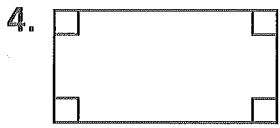
Reason with shapes and their attributes.

Use the corner of a sheet of paper to tell whether the angle is a *right angle*, *less than a right angle*, or *greater than a right angle*.



less than a right angle

Write how many of each type of angle the shape has.



_____ right

_____ right

_____ right

_____ less than a right

_____ less than a right

_____ less than a right

_____ greater than a right

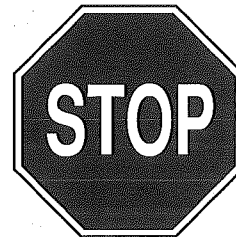
_____ greater than a right

_____ greater than a right

Problem Solving **REAL WORLD**

7. Jeff has a square piece of art paper. He cuts across it from one corner to the opposite corner to make two pieces. What is the total number of sides and angles in both of the new shapes?

8. Kaylee tells Aimee that the shape of a stop sign has at least one right angle. Aimee says that there are no right angles. Who is correct? **Explain.**



Name _____

Identify Polygons

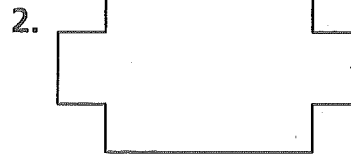
COMMON CORE STANDARD CC.3.G.1

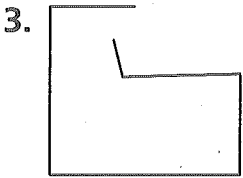
Reason with shapes and their attributes.

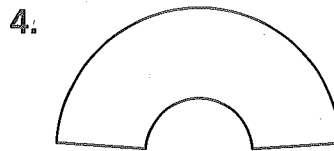
Is the shape a polygon? Write *yes* or *no*.



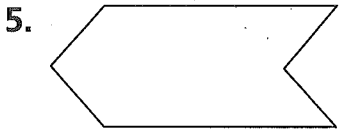
no







Write the number of sides and the number of angles. Then name the polygon.



_____ sides

_____ angles



_____ sides

_____ angles

Problem Solving **REAL WORLD**

7. Mr. Murphy has an old coin that has ten sides. If its shape is a polygon, how many angles does the old coin have?

8. Lin says that an octagon has six sides. Chris says that it has eight sides. Whose statement is correct?

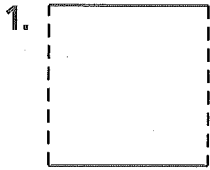
Name _____

Describe Sides of Polygons

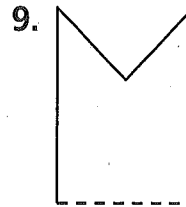
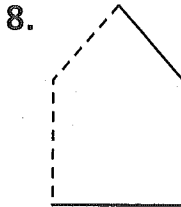
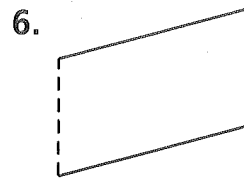
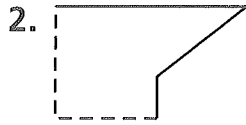
COMMON CORE STANDARD CC.3.G.1

Reason with shapes and their attributes.

Look at the dashed sides of the polygon. Tell if they appear to be *intersecting*, *perpendicular*, or *parallel*. Write all the words that describe the sides.



parallel

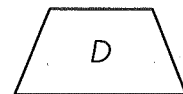
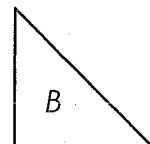
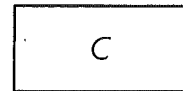
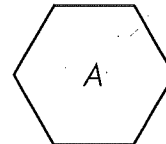


Problem Solving **REAL WORLD**

Use shapes A–D for 10–11.

10. Which shapes appear to have parallel sides?

11. Which shapes appear to have perpendicular sides?



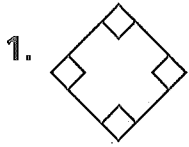
Name _____

Classify Quadrilaterals

COMMON CORE STANDARD CC.3.G.1

Reason with shapes and their attributes.

Circle all the words that describe the quadrilateral.



square

rectangle

rhombus

trapezoid



square

rectangle

rhombus

trapezoid



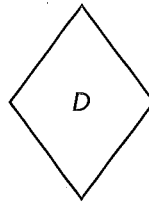
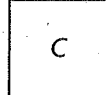
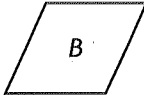
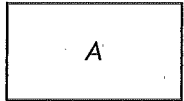
square

rectangle

rhombus

trapezoid

Use the quadrilaterals below for 4–6.



4. Which quadrilaterals appear to have no right angles?

5. Which quadrilaterals appear to have 4 right angles?

6. Which quadrilaterals appear to have 4 sides of equal length?

Problem Solving **REAL WORLD**

7. A picture on the wall in Jeremy's classroom has 4 right angles, 4 sides of equal length, and 2 pairs of opposite sides that are parallel. What quadrilateral best describes the picture?

8. Sofia has a plate that has 4 sides of equal length, 2 pairs of opposite sides that are parallel, and no right angles. What quadrilateral best describes the plate?

Name _____

Draw Quadrilaterals

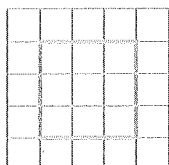
COMMON CORE STANDARD CC.3.G.1

Reason with shapes and their attributes.

Draw a quadrilateral that is described.

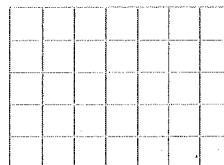
Name the quadrilateral you drew.

1. 4 sides of equal length



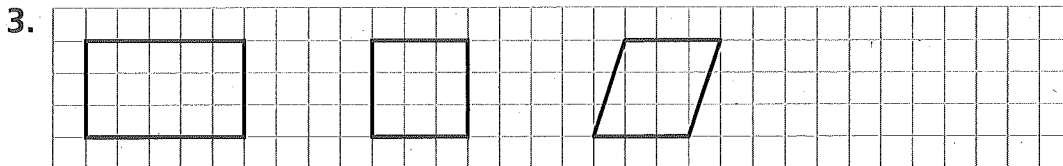
square

2. 1 pair of opposite sides that are parallel



Draw a quadrilateral that does not belong.

Then explain why.



Problem Solving **REAL WORLD**

4. Layla drew a quadrilateral with 4 right angles and 2 pairs of opposite sides that are parallel. Name the quadrilateral she could have drawn.

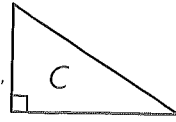
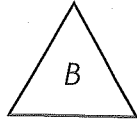
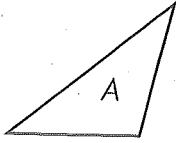
5. Victor drew a quadrilateral with no right angles and 4 sides of equal length. What quadrilateral could Victor have drawn?

ame _____

Describe Triangles

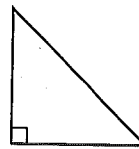
COMMON CORE STANDARD CC.3.G.1
Reason with shapes and their attributes.

Use the triangles for 1–3. Write *A*, *B*, or *C*.
Then complete the sentences.

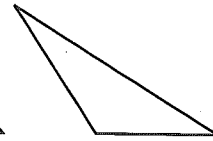


- Triangle *B* has 3 angles less than a right angle and appears to have 3 sides of equal length.
- Triangle _____ has 1 right angle and appears to have _____ sides of equal length.
- Triangle _____ has 1 angle greater than a right angle and appears to have _____ sides of equal length.

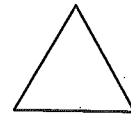
- Kyle, Kathy, and Kelly each drew a triangle. Who drew the triangle that has 1 angle greater than a right angle and appears to have no sides of equal length?



Kyle



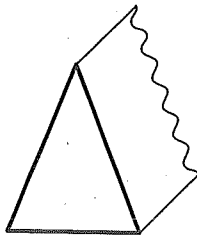
Kathy



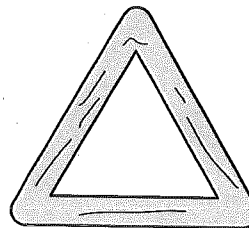
Kelly

Problem Solving **REAL WORLD**

- Matthew drew the back of his tent. How many sides appear to be of equal length?



- Sierra made the triangular picture frame shown. How many angles are greater than a right angle?



Name _____

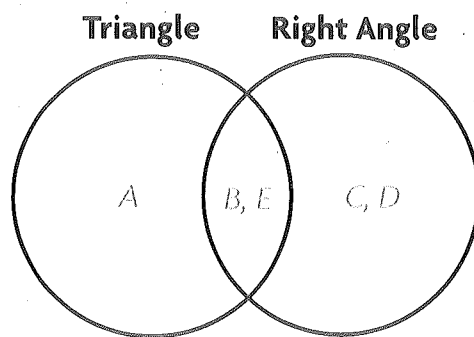
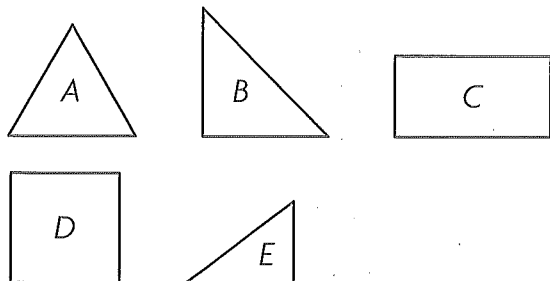
Problem Solving • Classify Plane Shapes

COMMON CORE STANDARD CC.3.G.1

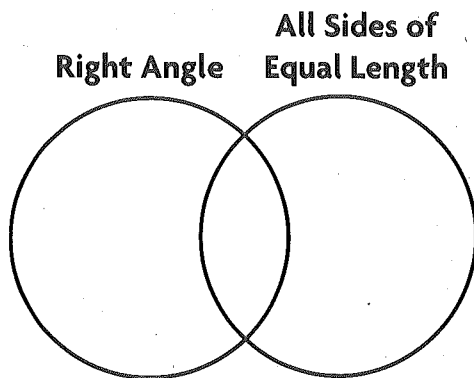
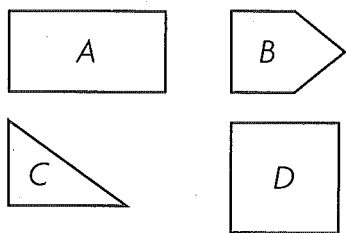
Reason with shapes and their attributes.

Solve each problem.

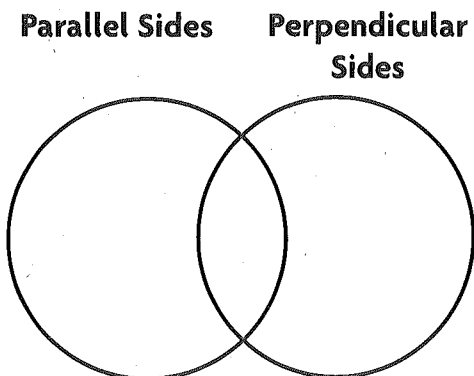
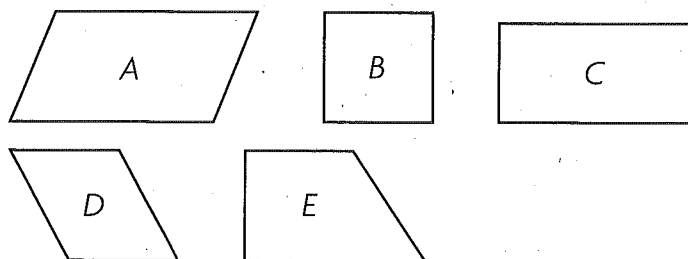
1. Steve drew the shapes below. Write the letter of each shape where it belongs in the Venn diagram.



2. Janice drew the shapes below. Write the letter of each shape where it belongs in the Venn diagram.



3. Beth drew the shapes below. Write the letter of each shape where it belongs in the Venn diagram.



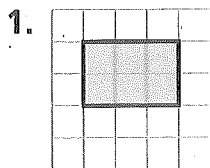
Name _____

Relate Shapes, Fractions, and Area

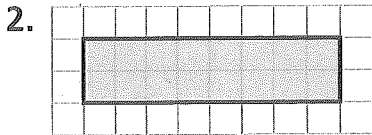
COMMON CORE STANDARD CC.3.G.2

Reason with shapes and their attributes.

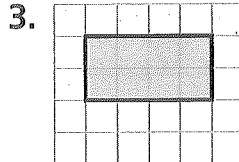
Draw lines to divide the shape into equal parts that show the fraction given.



$$\frac{1}{3}$$

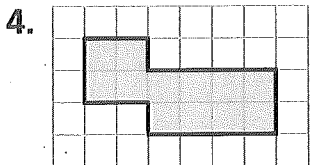


$$\frac{1}{8}$$

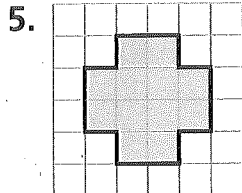


$$\frac{1}{2}$$

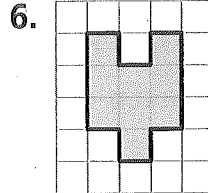
Draw lines to divide the shape into parts with equal area. Write the area of each part as a unit fraction.



4 equal parts



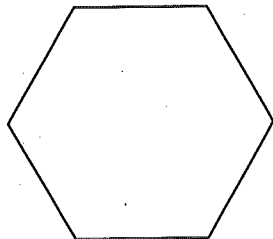
6 equal parts



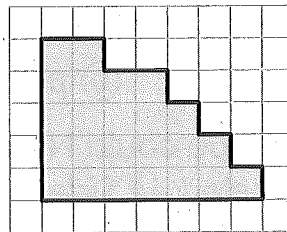
3 equal parts

Problem Solving **REAL WORLD**

7. Robert divided a hexagon into 3 equal parts. Show how he might have divided the hexagon. Write the fraction that names each part of the whole you divided.



8. Show how you might divide the shape into 8 equal parts. What fraction names the area of each part of the divided shape?



Name _____

Chapter 12 Extra Practice

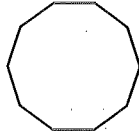
Lessons 12.1 - 12.3

Name the polygon.

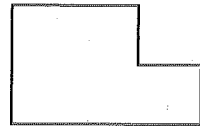
1.



2.



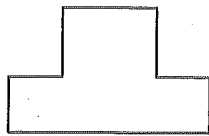
3.



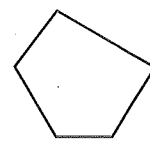
4.



5.



6.



Lesson 12.4

Look at the dashed sides of the polygon. Tell if they appear to be *intersecting*, *perpendicular*, or *parallel*. Write all the words that describe the sides.

1.



2.



3.



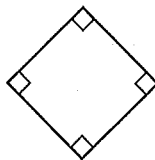
Lesson 12.5

Circle all the words that describe the quadrilateral.

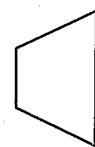
1.



2.



3.



rhombus

trapezoid

rectangle

square

rhombus

trapezoid

trapezoid

rectangle

rhombus