

Classifying Shapes

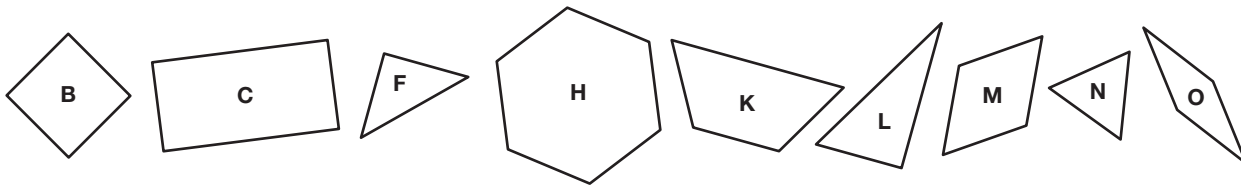


Use the questions in the menu to choose practice with classifying shapes.

- Decide if you are “Working On It,” you are “Getting It,” or you already “Got It” to choose which problems you should complete.
- If one set of problems seems too easy or too hard, choose a different set to complete.

Workshop Menu			
	▲ Working On It!	● Getting It!	■ Got It!
Can I Do This?			
Classify shapes using their properties. Explain my answer using geometric properties.	Questions 1–2, 4–5	Questions 2, 4–5	Questions 2–5

Use the nine Power Polygons™ below for Questions 1 and 2.



- ▲ 1. **A.** Sort the shapes with four sides into Box A.
 Sort the Shapes with one or more right angles into Box B.
 Some shapes will go in both boxes. Some will go outside.
 Sketch the shapes where they belong. The first one is an example.

- B.** What is one name for all the shapes in Box A?

- C.** What is one name for all the shapes in both Box A and Box B?

- D.** Is a square also a quadrilateral? Show or tell how you know.

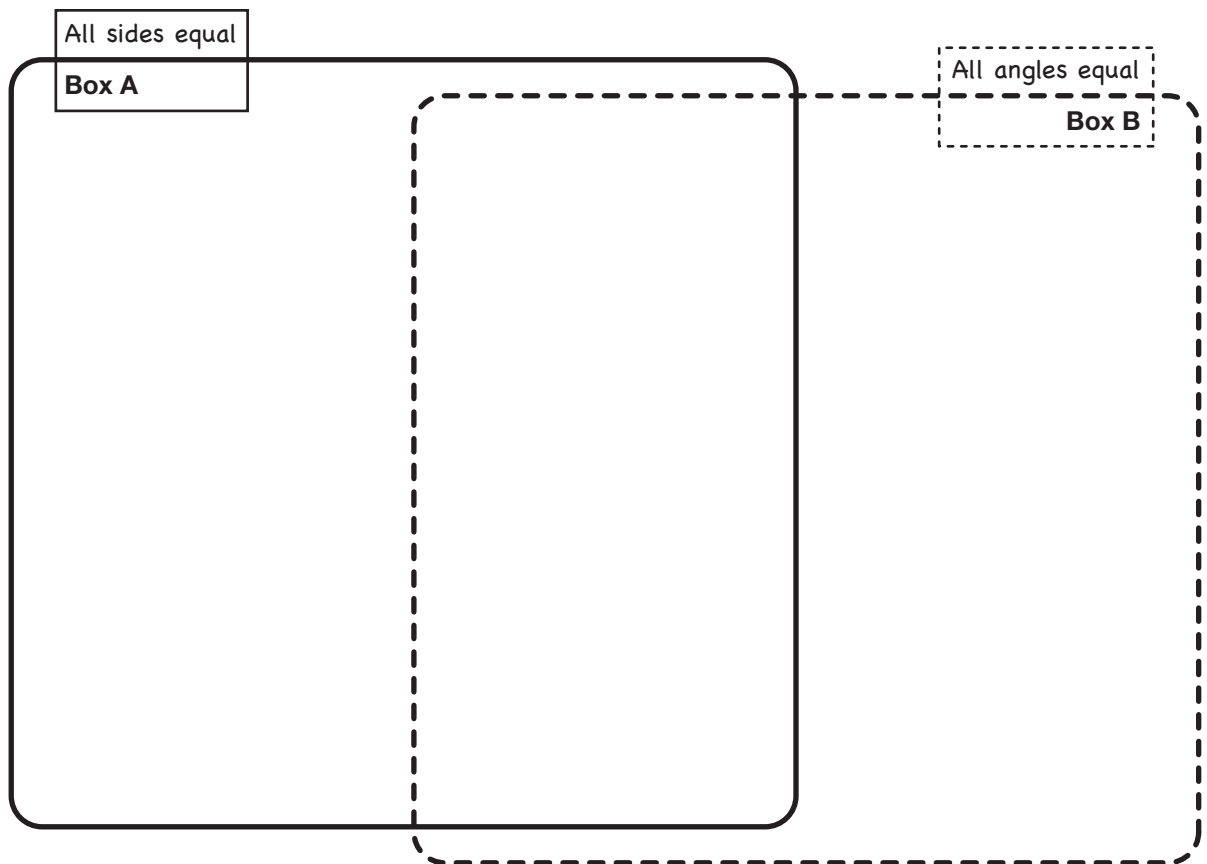
Use the nine Power Polygons™ for Question 1 for this question, too.

2. A. Sort the shapes with all sides equal into Box A.
Sort the shapes with all angles equal into Box B.
Some shapes will go in both boxes. Some shapes will go outside.
Sketch the shapes where they belong.

B. What is one name for all the shapes in Box A that are not in Box B? _____

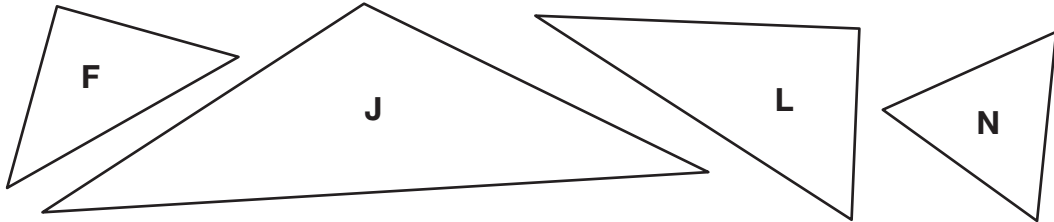
C. What is one name for all the shapes in both Box A and Box B? _____

D. Is a square a regular polygon? Show or tell how you know.



3. You will need seven triangles for this question:

- Cut out the 3 triangles (P, Q, R) at the bottom of the page, and
- Find these 4 triangles (F, J, L, N) in your Power Polygons™.



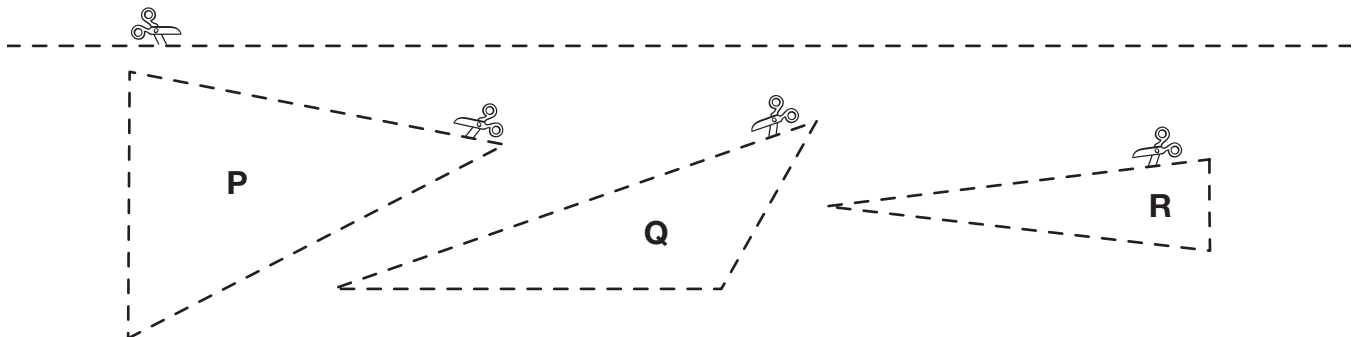
A. Review the names for triangles in Lessons 5 and 9 in the *Student Guide*. Fill in the chart below with the letters of the triangles. Some boxes will not have a letter. Write “none” in those boxes.

Example: Triangle J is both isosceles and obtuse, so write “J” in the row for obtuse and the column for isosceles.

	Equilateral	Isosceles	Scalene
Right			
Acute			
Obtuse		J	

B. Which triangle is a scalene right triangle? Show or tell how you know.

C. In which boxes did you write, “none”? Why are these boxes impossible to fill?

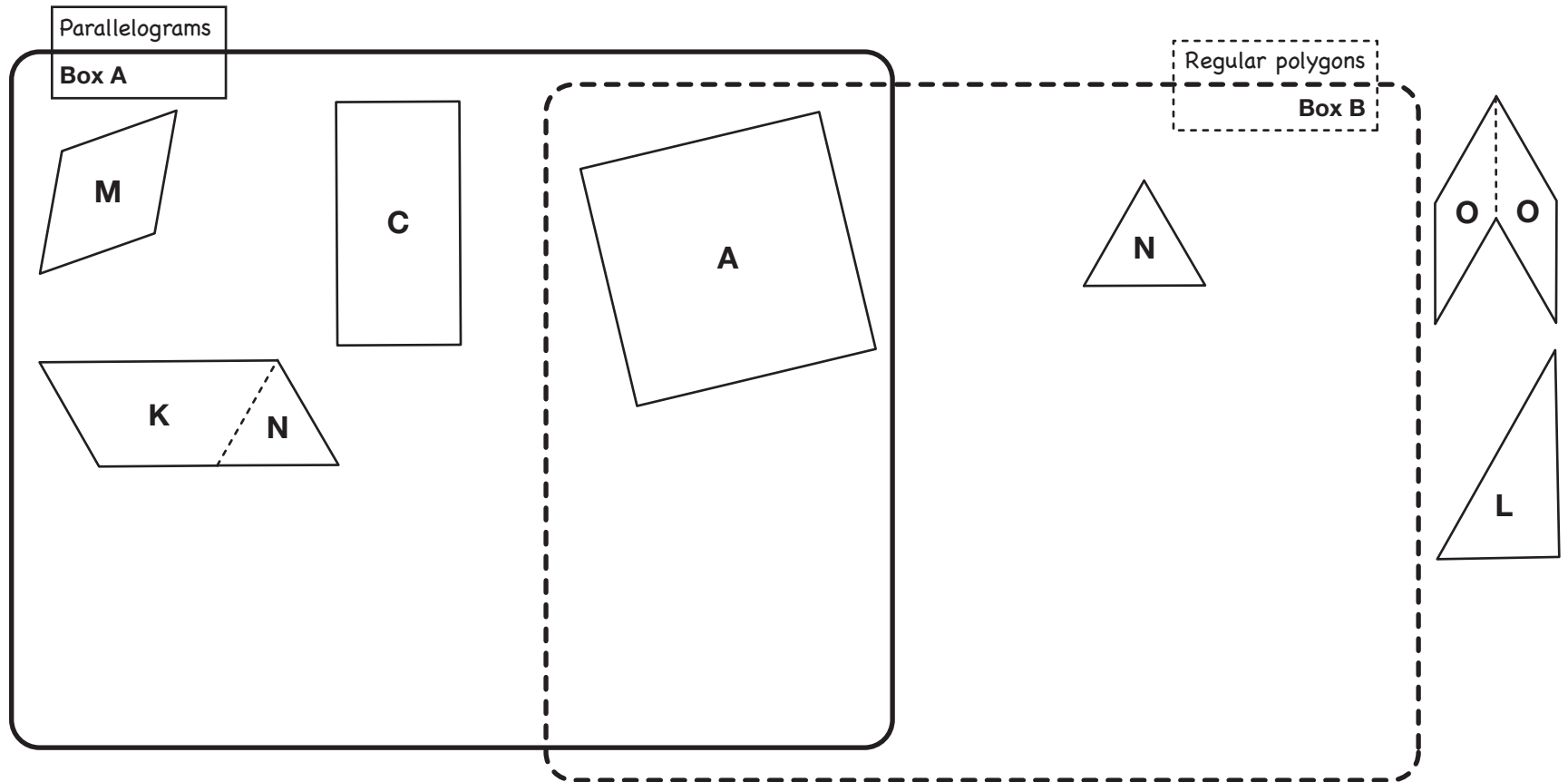


Name _____ Date _____






Check-In: Questions 4–5

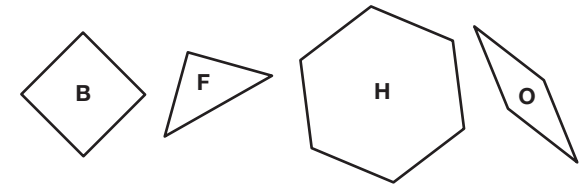
Mrs. Dewey’s class sorted shapes. They put parallelograms in Box A and regular polygons in Box B. They placed shapes that did not go in either box outside the boxes.






Name _____

Date _____

-    **4.** Sort the following shapes using the same rules as Mrs. Dewey's class. Sketch the shapes where they belong on the drawing of the boxes on the previous page. Add their letters.



-    **5.** Use your work for Question 4 to answer the questions below. Use properties in your explanations.
- How did you decide where to place the brown triangle (F)?
 - How did you decide where to place the yellow hexagon (H)?
 - Are all hexagons regular polygons? Show or tell how you know.
 - Is a square also a parallelogram? Show or tell how you know.

Classifying Shapes
Check-In: Questions 4–5
Feedback Box

Yes . . .

Yes, but . . .

No, but . . .

No . . .

MPE5. Show my work.

I show or tell how I arrived at my answer so someone else can understand my thinking.