

Organize Polygons on a Venn Diagram

What You Need

- Recording Sheet



Check Understanding

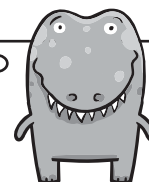
Look at the two figures in the “trapezoids” category on the Venn diagram. Is one of the figures a subcategory of the other? Explain your reasoning. How would showing this difference change the Venn diagram?

What You Do

1. Take turns. Use the labels below the Venn diagram on the **Recording Sheet** to label the categories from least specific to most specific. Your partner checks your work.
2. Next, choose one of the polygons on the **Recording Sheet**.
3. Point to the *most specific* placement of the figure on the Venn diagram. Explain your reasoning
4. If your partner agrees, write the number of the polygon in the correct location in the Venn diagram.
5. Repeat until the all eight shapes have been placed in the Venn diagram.

A Venn diagram shows how properties are shared.

- *A category inside another category has all the properties of that category plus some other properties.*
- *Categories that overlap have the properties of both categories plus one or more other properties.*

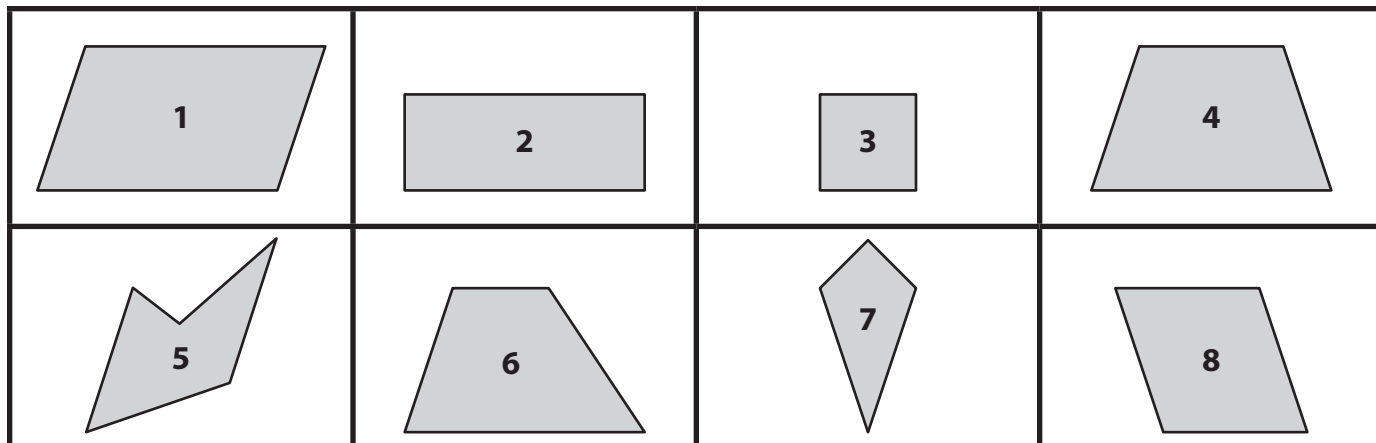


Go Further!

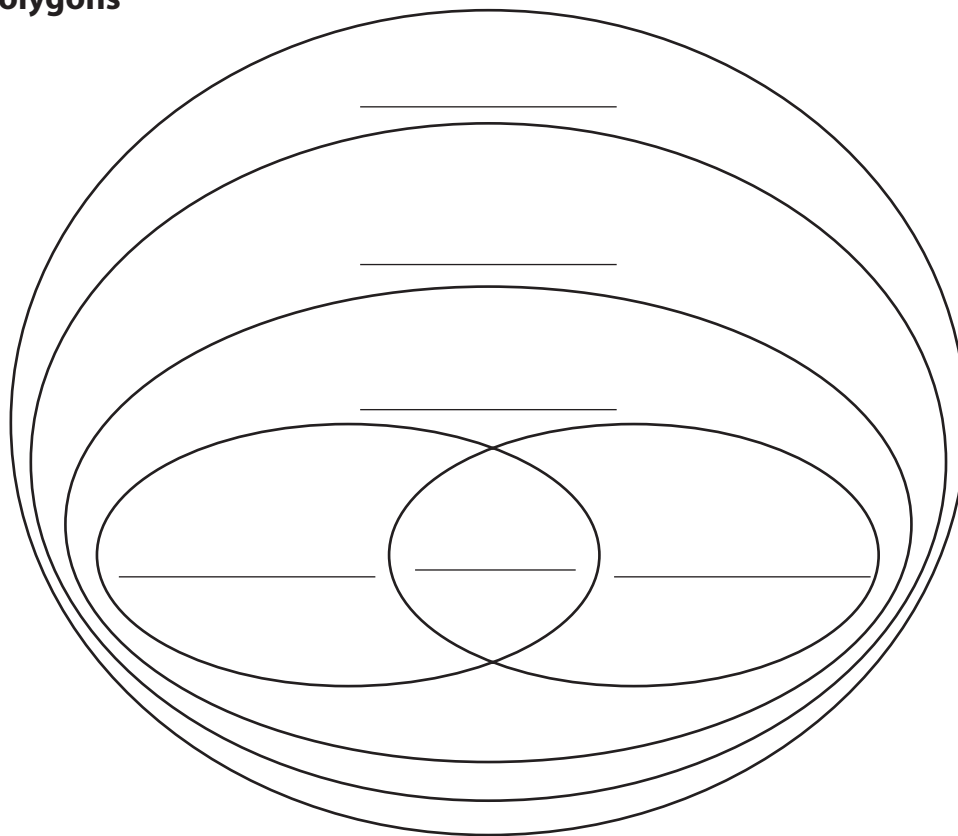
On a separate sheet of paper, sketch a polygon. Ask your partner to show where it could go on the Venn diagram. Work together to say all the terms that can be used to name the polygon; for example, polygon, quadrilateral, trapezoid.



Organize Polygons on a Venn Diagram



Polygons



Parallelograms Quadrilaterals Rectangles Rhombuses Squares Trapezoids