

## Organize Triangles on a Venn Diagram

### What You Need

- Recording Sheet



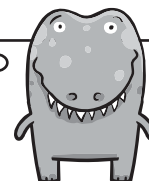
### Check Understanding

A student draws a Venn diagram that sorts triangles by angle size. Will any of the categories overlap? Will any triangle be outside of the categories? Explain your reasoning. Include a sketch.

### What You Do

1. Take turns. Choose one of the triangles on the **Recording Sheet**.
2. Point to the *most specific* placement for that triangle on the diagram. Explain your reasoning.
3. If your partner agrees, draw the triangle with its number in the correct category on the Venn diagram.
4. Repeat until all of the triangles are placed on the Venn diagram.

The Venn diagram shows triangles sorted by the lengths of their sides.



### Go Further!

Sketch three more triangles at the top of the **Recording Sheet**. Be sure the side lengths are clear. Ask your partner where each triangle belongs on the Venn diagram. Check your partner's answers.



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