

## Organize Triangles on a Venn Diagram

### What You Need

- Recording Sheet



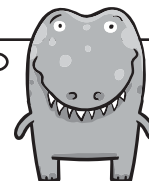
### Check Understanding

A student changed the Venn diagram on the **Recording Sheet** to include a category for right triangles. Sketch how the student may have done this. Explain your reasoning.

### 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. Then give the specific name of the triangle such as *right isosceles*, using angle measure and side lengths. Explain your reasoning.
5. Repeat until all of the triangles are placed on the Venn diagram and named.

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 angle sizes and side lengths are clear. Ask your partner where each triangle belongs on the Venn diagram. Check your partner's answers.



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