

Organize Triangles on a Venn Diagram

What You Need

- Recording Sheet



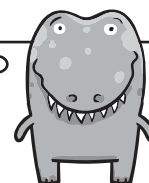
Check Understanding

Are there any triangles that will not fit into the two large subcategories on the Venn diagram?
Explain your answer.

What You Do

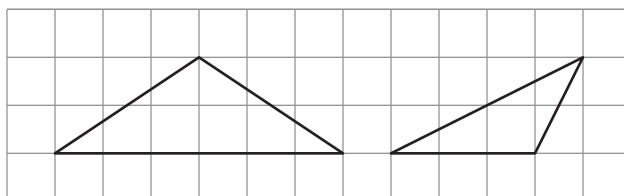
1. Take turns. Choose one of the triangles on the **Recording Sheet**.
2. Point to the *most specific* placement for that triangle on the diagram. Explain your reasoning.
3. If your partner agrees, draw the triangle with its number in the correct category on the Venn diagram.
4. Repeat until all of the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

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


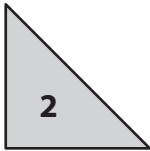
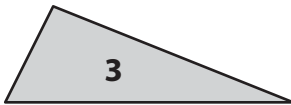


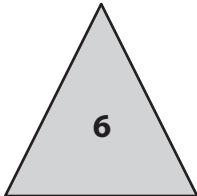


Go Further!

Name these triangles by their side lengths. Decide where they belong on the Venn diagram. Explain your reasoning to your partner.



Organize Triangles on a Venn Diagram

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|  |  |  |

Triangles

| | |
|---|---|
| <p style="text-align: center;">Scalene</p> | <p style="text-align: center;">Isosceles</p> <div style="border: 1px solid black; width: 80%; margin: 20px auto; padding: 10px; text-align: center;"> <p>Equilateral</p> </div> |
|---|---|