

What's Shared? What's Not?

Learning Objective

Students learn about overlapping sets (Venn diagrams are an example) that meet 2 conditions.

Setup

- 1 Draw a large square in the center of the paper.
- 2 Draw a large triangle so that the top point of triangle and 1/2 of the triangle overlap the square.

Materials

- ✓ Large piece of paper
- ✓ 6 stones or chops, beans, or similar
- ✓ Magic marker

Task

Students place stones on the diagram to meet certain conditions. All stones must be used and placed on the diagram.

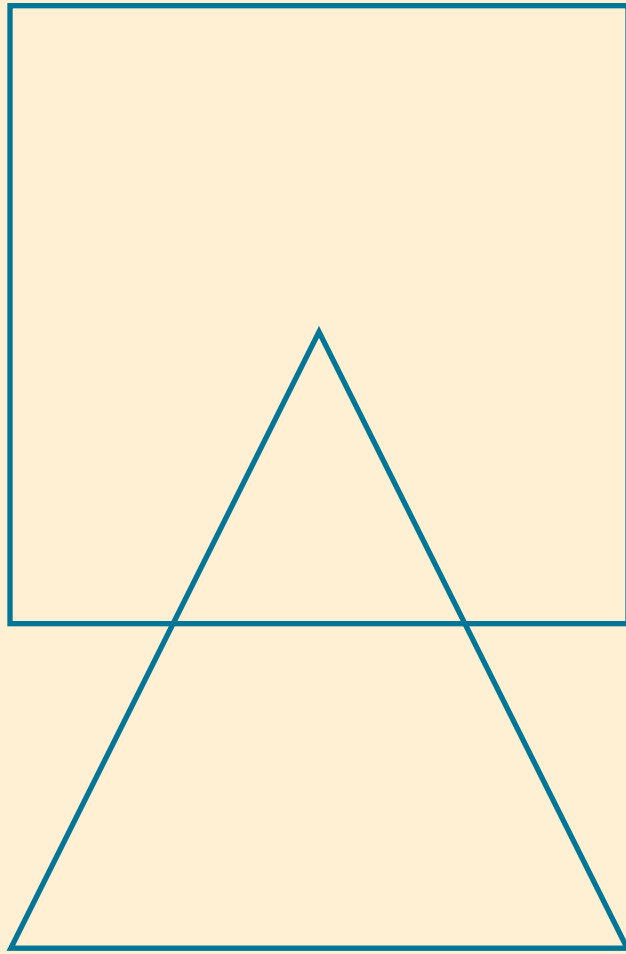
Ratchet It Up

Increase the number of stones to 10.

Ratchet It Higher

Draw a circle that partly overlaps the square and the triangle. Adjust the challenge to include some stones in square, triangle and circle (and all three).

What's Shared? What's Not?



- 1 Can you place the 6 stones on the diagram so that 5 are in the square and 4 are in the triangle?
- 2 Place 6 stones so 3 are in the square and 4 are in the triangle.
- 3 Place 6 stones so 5 are in the square and 5 are in the triangle.
- 4 Place 6 stones so 3 are in the square and 5 are in the triangle.
- 5 Place 6 stones so that 1 is the square and 6 are in the triangle.
- 6 Place 6 stones so 5 are in the square and 2 are in the triangle.