Explore



You will need Pattern Blocks and a Mira.

Choose 3 Pattern Blocks, 2 the same and 1 different. Arrange the 3 blocks to make a figure with exactly 1 line of symmetry.

Each block must touch at least one other block. Trace the figure.

Draw a dotted line to show the line of symmetry.



Describe the strategy you used to solve the problem. Could you make more than one figure? Explain.



You will need pentominoes, 2-cm grid paper, and a Mira. Choose 2 different pentominoes.

Arrange the pentominoes to create a figure with exactly 1 line of symmetry.

Trace the figure and show the line of symmetry.



What do you know?

- Use 2 different pentominoes.
- Arrange the pentominoes to make a figure.
- · The figure must have exactly 1 line of symmetry.

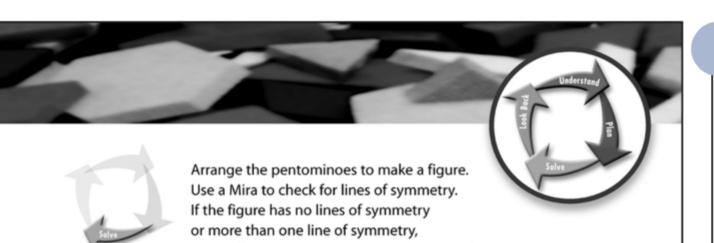
Think of a strategy to help you solve this problem.

 You can use guess and check to find a figure with exactly 1 line of symmetry.



Strategies

- · Make a table.
- · Use a model.
- Draw a diagram.
- Solve a simpler problem.
- Work backward.
- · Guess and check.
- · Make an organized
- · Use a pattern.
- · Draw a graph.





Check your work.

Does your figure have exactly 1 line of symmetry?

How do you know?

try a different arrangement to make a new figure.

Practice

 Draw mirror lines to divide a piece of grid paper in 4 congruent sections.

Draw Figure A in one section.

Reflect Figure A in one of the mirror lines.

Label the image B.

Reflect Image B in the other mirror line.

Label the image C.

Describe a transformation that would move Figure A directly onto Image C.

How many different transformations can you find?

Repeat question 1.This time divide the paper in 3 sections.

Choose one of the Strategies

