

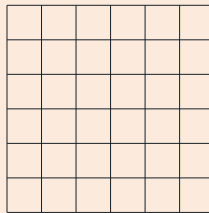
BUILD AND FLIP A SIMPLE FLAG

- 1 Draw a vertical mirror line down the middle of the squared paper.
- 2 Build a flag shape with its nearest corner 3 squares left of the line.
- 3 For every corner, count the same number of squares on the right side of the line.
- 4 Join the new points so the flag now faces the opposite way, still 3 squares from the line.

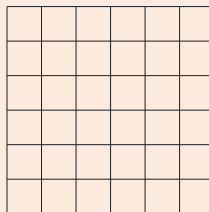
WARM-UP

Use the grid to build each shape on one side of the mirror line and complete its reflection on the other side.

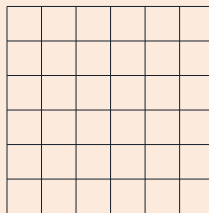
1. Draw a triangle whose nearest corner is 2 squares left of the vertical line and add its reflection



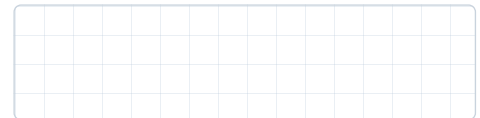
2. Build a flag with its pole 3 squares from the line and draw the matching flag on the opposite side



3. Place an L-shape 3 squares above the horizontal line and complete the reflection below it

**PRACTICE**

- 1 While making a block pattern you place a triangle 2 squares left of a vertical mirror line. Draw where its reflection must sit.

**? ALWAYS, SOMETIMES, NEVER**

Always, sometimes or never true? Write A, S or N.

- | | |
|---|--|
| a. A reflected shape is exactly the same size as the original shape. <input type="text"/> | c. Each corner stays the same number of squares from the mirror line. <input type="text"/> |
| b. After a reflection the shape faces the opposite way. <input type="text"/> | d. Reflecting a shape across a line changes its size. <input type="text"/> |

REFLECT

After a reflection, what stays the same about the shape and what changes?

