

Fill in the missing shape to complete the pattern.

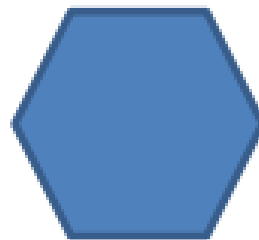


If the pattern continued what would the tenth shape be?

Explain your reasoning.

Fluency

- How many sides does an octagon have?
- Count the sides of this shape and then name it.



- How many corners does a square have?

Reasoning

- Caroline is finding the properties of a shape. She thinks it is a square because it has four sides. Explain why she could be wrong.
- Look at the line of symmetry in the shape below. Do you agree it is a line of symmetry? Explain why.

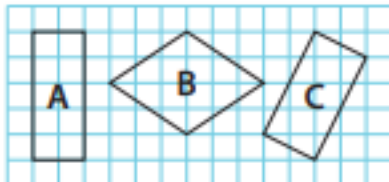


- I am thinking of a shape with more than two lines of symmetry. Prove which shape I am thinking of by using a pictorial image. Is that the only shape it could be?

Mastery

Captain Conjecture says, 'All of these shapes are rectangles because they have four sides.'

Do you agree?

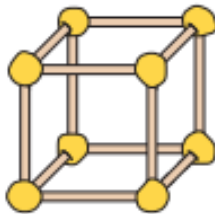


Explain your reasoning.



Mastery with Greater Depth

Jack has made a cube using 12 sticks and 8 balls of modelling clay.



What shape could he make with:

6 sticks and 4 balls of clay?

4 long sticks, 8 short sticks 8 balls of clay?