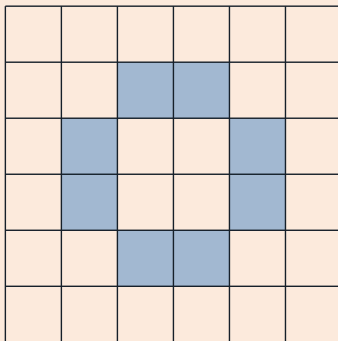


PARTS OF A BUILDING-BLOCK CUBE

- 1 Look at one cube used for building a tower.
- 2 Count the flat faces: a cube has **6** faces.
- 3 Count the edges where faces meet: a cube has **12** edges.
- 4 Count the corner points: a cube has **8** vertices.

WARM-UP

Complete each half of the symmetry grid so the shapes match.



1. Finish the square half so the whole shape shows 4 sides and 4 lines of symmetry
2. Finish the triangle half so the whole shape shows 3 sides and 3 vertices
3. Finish the rectangle half so the whole shape shows 2 pairs of parallel sides

PRACTICE

- 1 You cut a flat square tile to make a window for your model house. Count the sides, vertices, pairs of parallel sides and lines of symmetry on the square.
- 2 You stack solid cubes to build a tower. Count the faces, edges and vertices on one cube.
- 3 You cut a flat triangle from card to make a roof flag for your building. Count the sides and vertices on the triangle.
- 4 While sorting flat shapes to decorate your model, you have a triangle with **3** sides, a square with **4** sides and a pentagon with **5** sides. Which shape has the most sides?
- 5 You sort flat path tiles for your building site: a square and a rhombus both have **4** sides. Which of them has more lines of symmetry?

? ALWAYS, SOMETIMES, NEVER

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

- a. A square has 4 lines of symmetry d. Shapes with 4 sides have 4 lines of symmetry
- b. A cube has 6 faces
- c. A triangle has parallel sides

IRISH FACT

Skellig Michael's stone beehive huts

On Skellig Michael, off the Kerry coast, monks built dome-shaped stone huts called **clocháns** over **1,200 years ago** — each one is shaped a bit like a **rounded cone**, built with no mortar between the stones.

Office of Public Works / UNESCO

