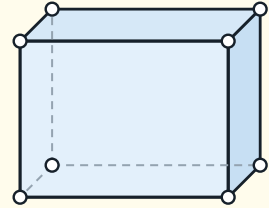


FACES, EDGES AND VERTICES OF A CUBOID

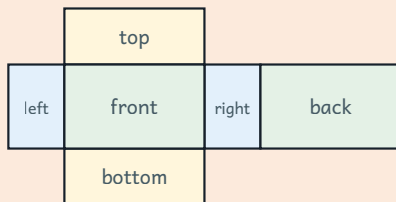
- 1 A cuboid has a top, bottom, front, back and two ends: that makes **6** faces.
- 2 Where two faces meet there is a straight edge: there are **12** edges.
- 3 Where edges meet there is a pointy corner (vertex): there are **8** vertices.



4 x 3 x 2 cm

WARM-UP

Look at the net of the cuboid, then colour and count its parts.



1. Colour each of the 6 faces of the net a different colour.
2. This net folds up into a cuboid. Write how many edges the cuboid has: ____
3. Write how many vertices (corners) the cuboid has: ____

PRACTICE

- 1 Cian is building a tower from wooden cube blocks. He wants to know how many flat faces one cube dice has.
- 2 Aoife is making a paper cube and needs to glue a bead on each pointy corner. How many corners must she cover?
- 3 Padraig is taping along every straight edge of a cuboid cereal box to make it strong. How many edges must he tape?

SPOT THE MISTAKE

Jack counts the parts of a cube like this:

faces = 6
edges = 12
vertices = 6

Jack's vertex count is wrong. How many vertices does a cube really have?

REFLECT

Which was trickier to count on a solid — faces, edges or vertices — and why?