

Y2 3d Shapes

KS1 Y2 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

How many faces does a cube have?

Step 1 · Count the faces you can see: front, top, side

3

Step 2 · Add the hidden faces: back, bottom, other side

3 more

Answer: 6 faces

Check: A dice has 6 faces, numbered 1 to 6 ✓

2. Now try one with the steps

What 2D shapes can you see on the faces of a square-based pyramid?

Step 1 · Look at the bottom face

Step 2 · Look at the sloping faces

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. How many faces does a cube have?

2. How many vertices does a cube have?

3. How many edges does a cube have?

4. What 3D shape is a football?

5. What 3D shape is a tin of soup?

6. What 2D shape are the faces of a cube?

7. How many vertices does a square-based pyramid have?

8. What 2D shape is the flat face of a cone?

9. How many edges does a square-based pyramid have?

10. How many faces does a triangular prism have?

11. How many vertices does a triangular prism have?

12. Which 3D shape has 0 edges and 0 vertices?

13. I have 6 faces that are all rectangles. What shape am I?

14. Zain says a cube and a cuboid have the same number of edges. Is he right? Write yes or no.

4. Before you hand it in

Counting only the faces you can see in a picture.

Use a real shape and mark each face with a sticker count it.

Calling a cube a square.

Say "a cube has square faces". 3D shapes have faces; 2D shapes are faces.

Mixing up edges and vertices.

An edge is a line where two faces meet. A vertex is a point where edges meet.

Counting edges twice.

Count the edges around the top, then the bottom, then the ones joining them.