1 Match the shapes to the faces.
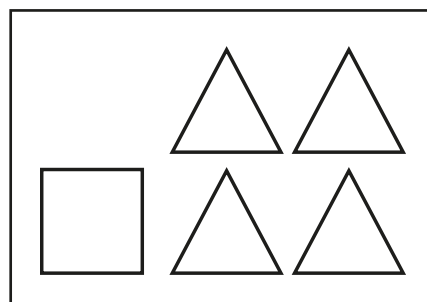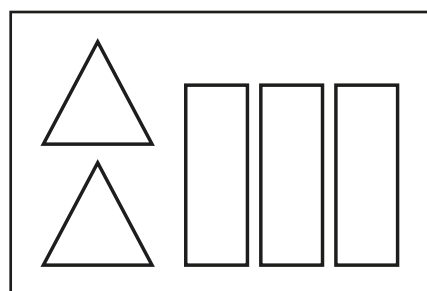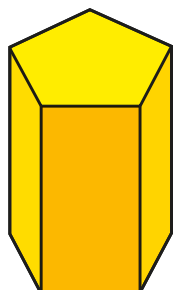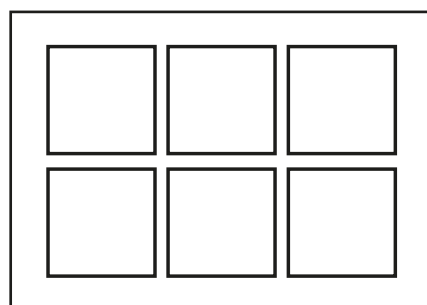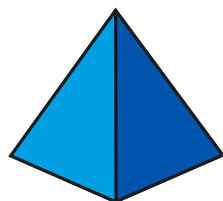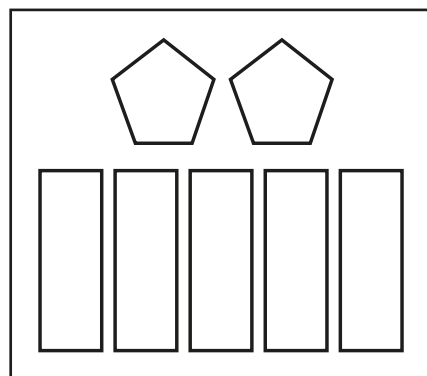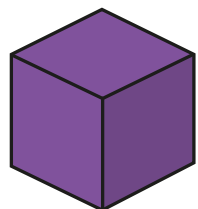
2 Complete the table.

Shape	Name	Number of faces

3
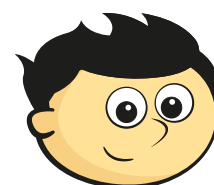
My shape has one curved surface.

What shape is Jack describing? _____

4 Match the description to the shape.

| 1 circular face and 1 curved surface |

| 2 circular faces and 1 curved surface |

| 4 triangular faces |

5

A cube is the only 3D shape with 6 faces.

Alex has made a mistake.

Name another 3D shape that has 6 faces.

_____

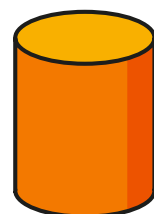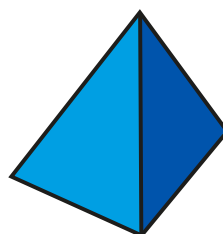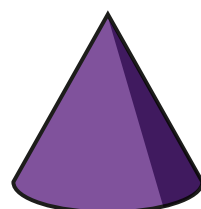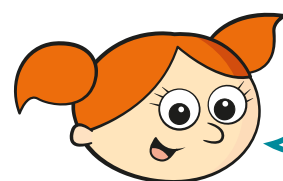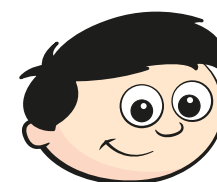6 Dexter has 5 of the same 3D shapes.

In total, my shapes have 10 circular faces.

What shapes has Dexter got?

Dexter has got 5 _____
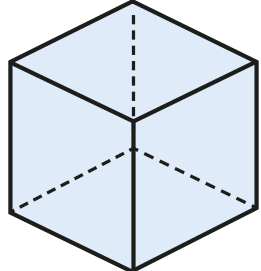
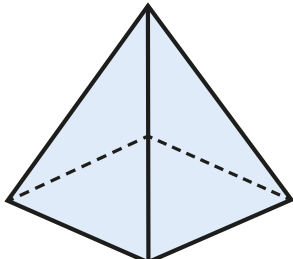7 Dora wants to put a sticker on each face of some cubes.

She has 60 stickers.

How many cubes can she cover in stickers?
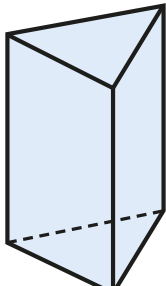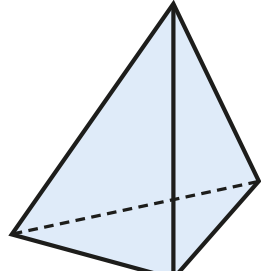
Dora can cover ☐ cubes in stickers.

1 How many edges does each shape have?
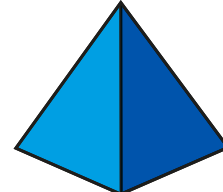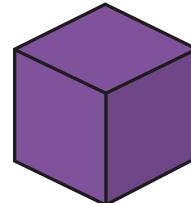
a)

[ ] edges

b)

[ ] edges

c)

[ ] edges

d)

[ ] edges

2 Complete the table.

Shape	Name	Number of edges	Number of faces

3
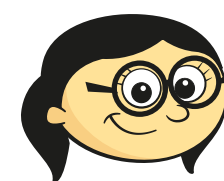
3D shapes always have more edges than faces.

Do you agree? _____

Why?

4 Use the clues to label the shape with the correct letter.

_____ _____ _____ _____

- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
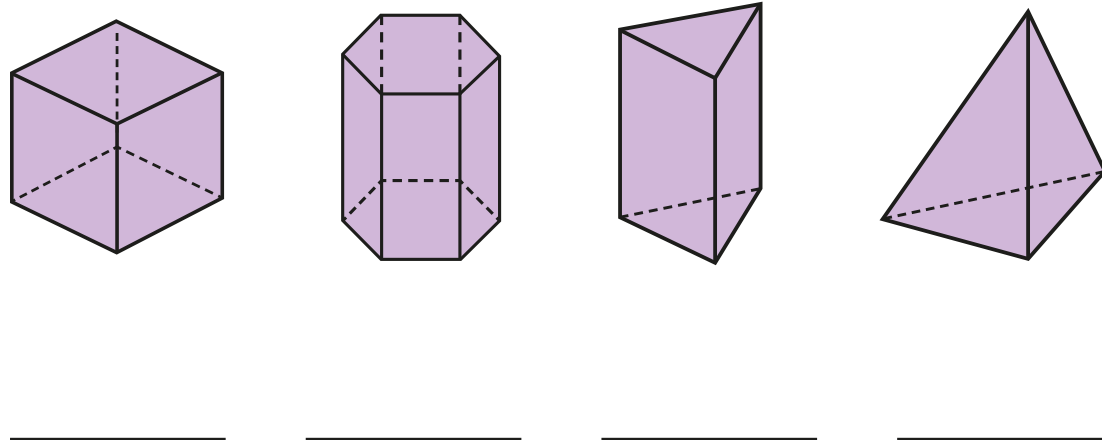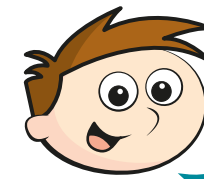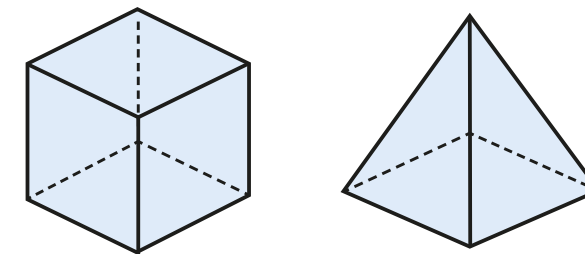- The edges of shape D are all the same length.

5 Write the name of two 3D shapes that have the same number of edges.
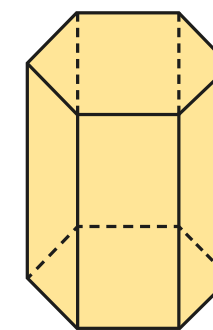
_____ and _____

6

A cube has 6 faces and 12 edges, so a square-based pyramid must have 5 faces and 10 edges. The number of edges is always double the number of faces.

Do you agree with Teddy? _____

Why?

7 This hexagonal prism has 18 edges.
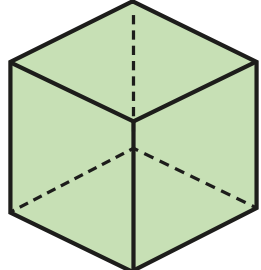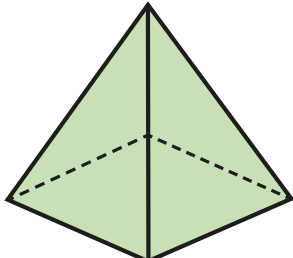

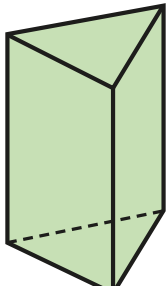How many edges do you think a pentagonal prism has?
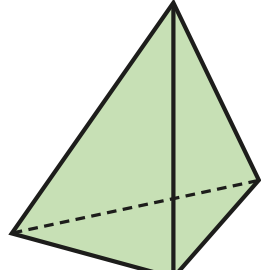
Why do you think this?

White Rose Maths

1 How many vertices does each shape have?
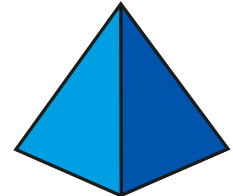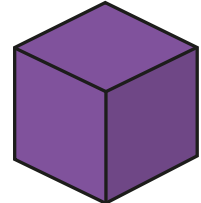
a)

[ ] vertices

b)

[ ] vertices

c)

[ ] vertices

d)

[ ] vertices

2 Complete the table.

Shape	Name	Number of vertices

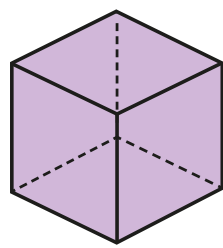Write the name of a different 3D shape with no vertices.
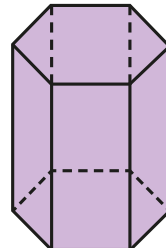
_____

3 Write the shapes in order of the number of vertices.

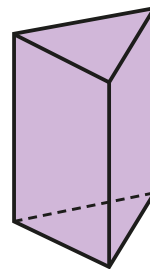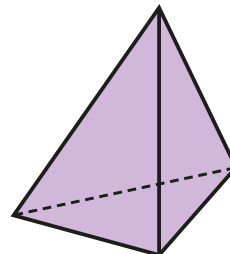Start with the shape that has the fewest vertices.

A   B   C   D

(fewest)   (most)

_____ _____ _____ _____

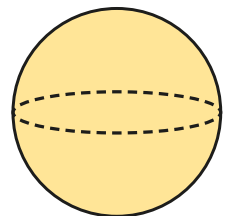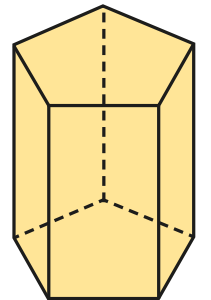**4** Complete the sentences.

(more)   (fewer)

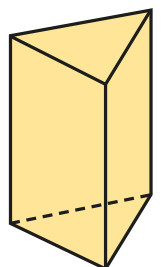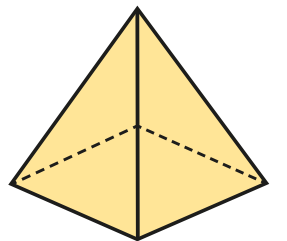**a)** A cube has _____ vertices than a sphere.

b) A sphere has _____ vertices than a cone.

c) A triangular prism has _____ vertices than a cuboid.

5 Match each shape to the correct label.

| < 5 vertices |

| = 5 vertices |

| > 5 vertices |