HELLO!
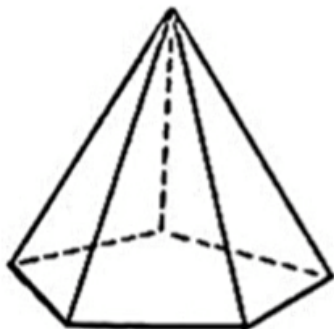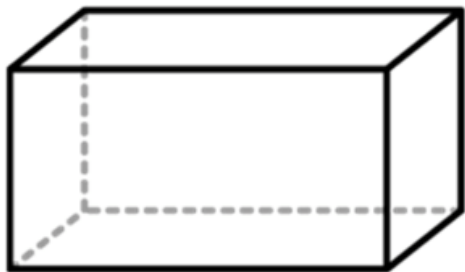
Today we are going to revise geometry – 3D shapes & nets

Arithmetic Warm Up

Use your ▲ to show your tutor: a) faces b) edges c) vertices.

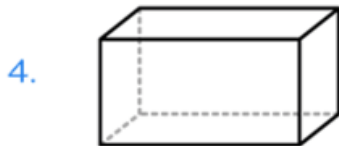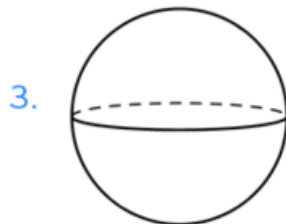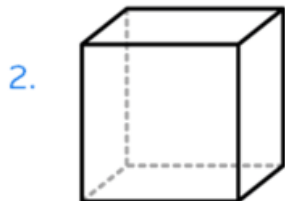# Revision on properties of shapes

First we are going to revise:

🎧 properties of 3D shapes

🎧 nets of 3D shapes

Revision: Properties of 3D shapes

Name these shapes and count the faces, edges and vertices:

1.

2.

3.
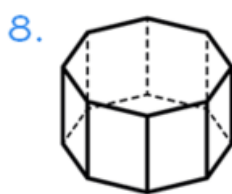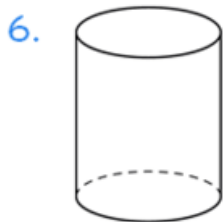
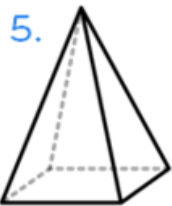4.

Faces:

Edges:

Vertices:

F:

E:

V:

F:

E:

V:

F:

E:

V:

Revision: Properties of 3D shapes

Name these shapes and count the faces, edges and vertices:

5.

6.

7.

8.

9.

F:

E:

V:

F:

E:

V:

F:

E:

V:

F:

E:

V:

F:

E:

V:

Question 1

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

✏️ Complete

Jack has two **square-based pyramids** that are the same size.

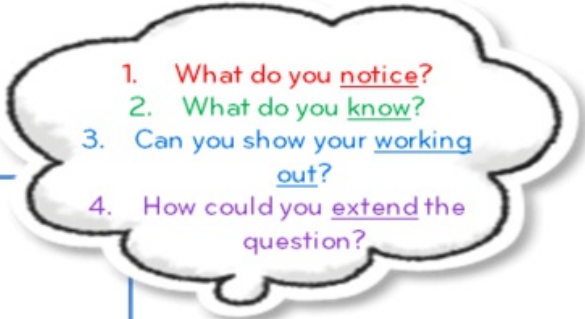He sticks the square faces together to make a new 3-D shape.

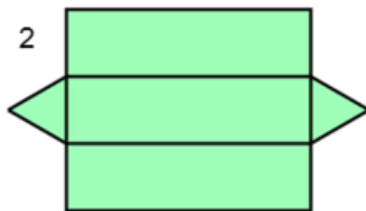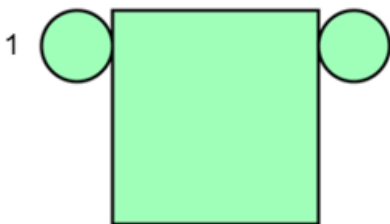How many **faces** and how many **edges** does
his new 3-D shape have?

✏️ [   ] **faces**   and   [   ] **edges**

Revision: Match nets to common 3D solids

Draw lines to link the nets to their correct names of solids.

1

2

a Cuboid **b** Triangular Prism **c** Square-based Pyramid
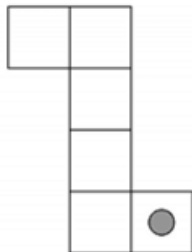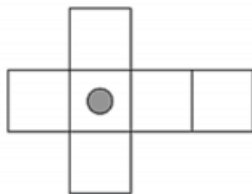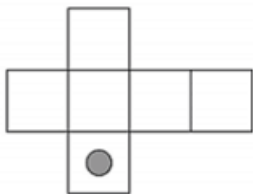
d Cylinder **e** Cube

3

4

5
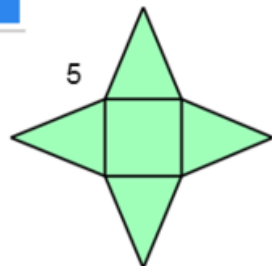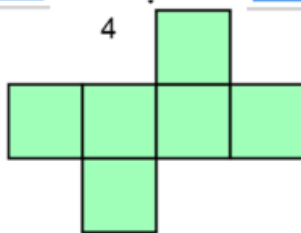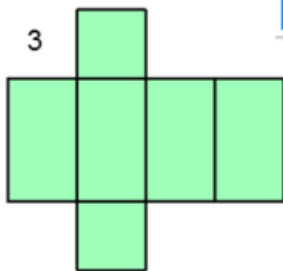
Question 2

Complete

Here are three nets of a cube.

On each net draw **one more dot** so that each cube will have dots on **opposite** faces.

1. What do you <u>notice</u>?
2. What do you <u>know</u>?
3. Can you show your <u>working out</u>?
4. How could you <u>extend</u> the question?

Let's review:

Know the names and properties of 3D shapes

Can work with nets of 3D shapes

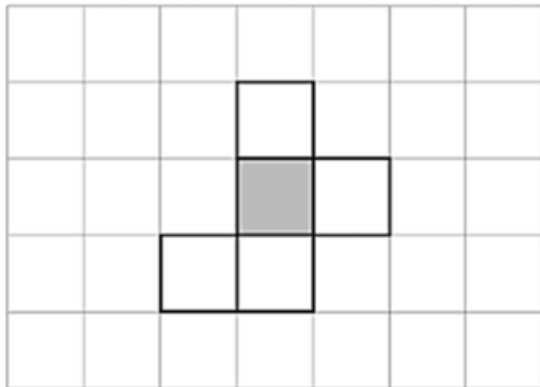Draw a circle around the smiley face to show how you feel about what we've just been doing.

CHALLENGE

Complete

Here is the net of a cube with no top.

The shaded square shows the bottom of the cube.

Draw an extra square to make the net of a cube which does have a top.

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

Understand what nets are

Which definition of a net do you think you will need today?

A net is something you throw a ball into to score a goal in netball

A net is something you take fishing

A net is a kind of material with lots of holes in it

Net is a short word for the internet

A net is a flat pattern you can cut out and fold to make the surface of a solid shape

You are revising 3D shapes & Nets (Meeting Y6 expectations)

Understand what nets are

Here is a simple net for a cube.

If the square in the centre of the cross is the base of the cube, which square is the top?
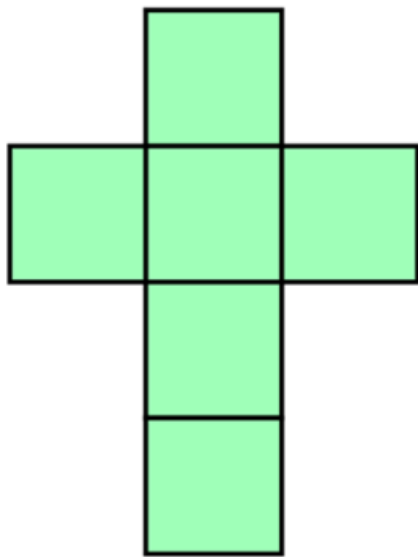
Recognise that there are several possible nets for some shapes

Circle the nets that will make cubes.