


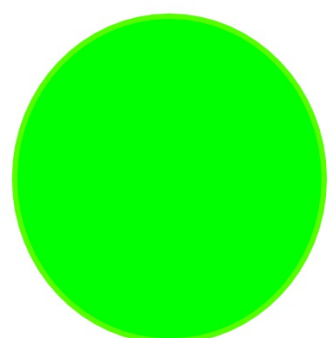
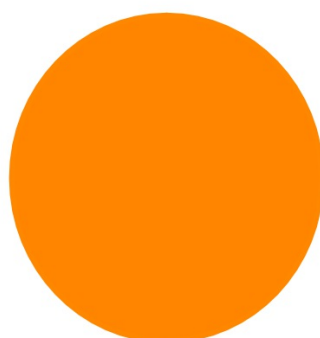
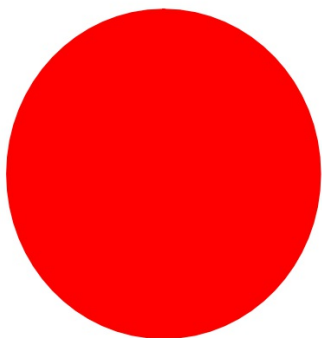
Goldilocks says that...

Is the same as

$$5 + 3 + 2 = \text{Double } 5$$


Is she right?

I can use mathematical
language to describe
shapes.



Here are some words we should
use when talking about 3D shapes.

edges

corners

faces

What do these words mean?

Faces/sides

A face is one of the surfaces of a 3D shape.

Edge

An edge is where two faces meet.

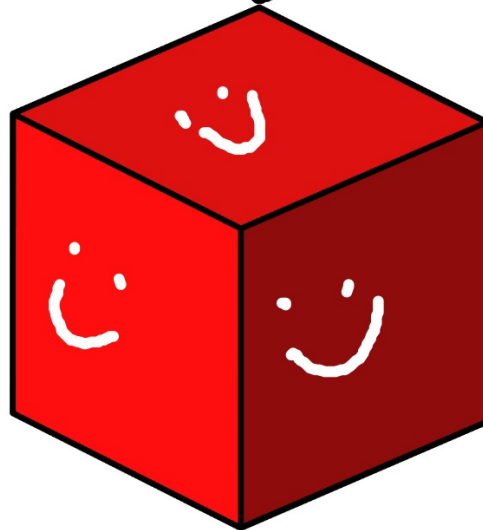
Corners/vertices

A corner is where two or more edges meet.

corners



edges



faces

Let's remind ourselves of 3D shapes.

3D Shapes



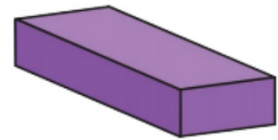
square-based pyramid



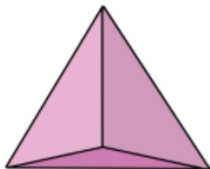
triangular prism



cone



cuboid



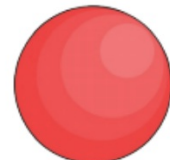
tetrahedron



cube

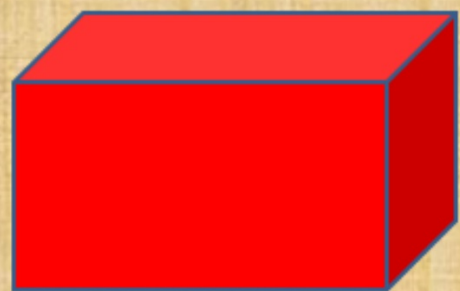


cylinder



sphere

Let's play
guess the shape!



What am I?

- I have 6 faces.
- I have 8 corners.
- I have 12 edges.

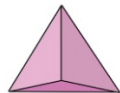
3D



square-based pyramid



triangular prism



tetrahedron



cube



What am I?

- I have 1 curved face.
- I have 2 circular faces.
- I have 0 corners.

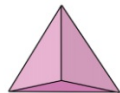
3D



square-based pyramid



triangular prism



tetrahedron



cube



What am I?

- I have 1 curved face.
- I have 0 corners.
- I have 0 edges.

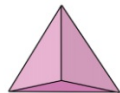
3D



square-based pyramid



triangular prism



tetrahedron



cube



What am I?

- I have 6 faces.
- I have 8 corners.
- 4 of my faces are rectangles.
- I have 12 edges.

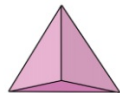
3D



square-based pyramid



triangular prism



tetrahedron

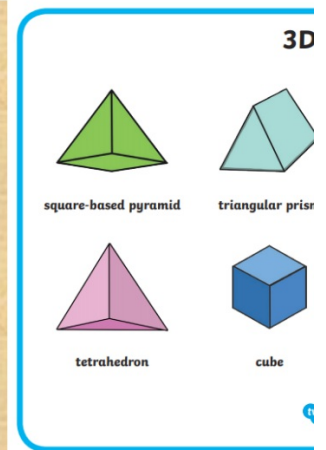


cube



What am I?

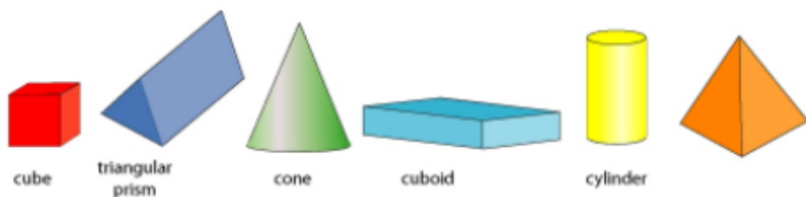
- I have 5 faces.
- 4 of my faces are triangles.
- I have a square base.
- I have 5 corners.
- I have 8 edges.



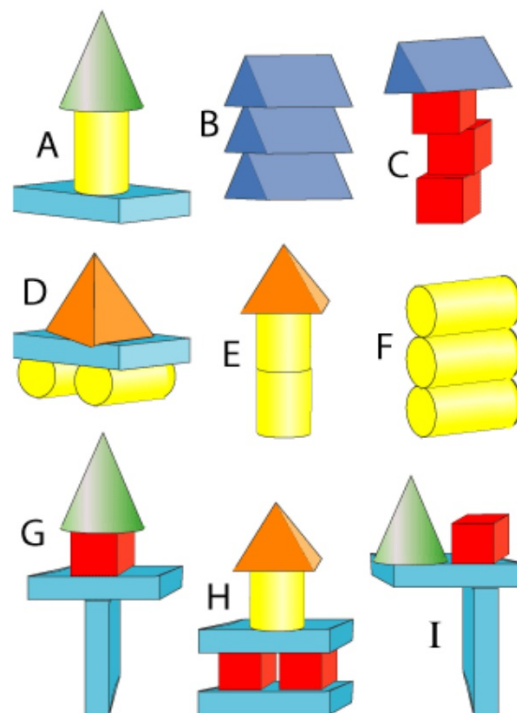
Building with Solid Shapes

Stage: 1 ★

We have a box of solid shapes. In it there are cubes, triangular prisms, cones, cuboids, cylinders and pyramids.



Which of the buildings below would fall down if we tried to make them? Which ones would be unstable and possibly collapse?



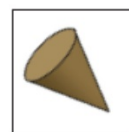
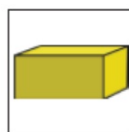
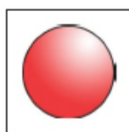
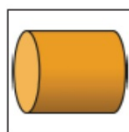
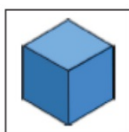
Discuss and build each one if you can - circle the ones that would stay up and cross the ones out that would fall down.

Extension:

3D Shape Properties Table

Cut out the 3D shapes and sort them into the table below.

Shapes that roll	Shapes that don't roll



Plenary Let's sort the 2D and 3D shapes.

Drag the shapes provided into the correct sections.

2-D shapes 3-D shapes

The shapes provided for sorting are:

- Green square
- Yellow pyramid
- Grey cylinder
- Orange rectangular prism
- Red right-angled triangle
- Grey cone
- Blue circle
- Purple triangle
- Cyan rectangle
- Green cube

http://resources.hwb.wales.gov.uk/VTC/castle_shapes/eng/Introduction/StarterActivityPart2.htm

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language to describe
shapes.

