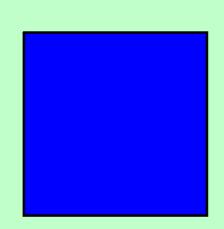
### <u>Day 1</u>

# Fab four!

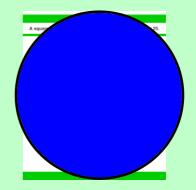
- 1.) 8 x 1.26=
- 2.) 15% of 880=
- 3.) first 5 prime numbers=
- 4.) 465 divided by 15=



### **Day 2**

# Fab four!

- 1.) 6 x 2.06=
- 2.) 15% of 380=
- 3.) first 5 square numbers=
- 4.) 208 divided by 13=



# Day 3 Fab four!

- 1.) 15 x 1.35=
- 2.) 15% of 730=
- 3.) first 3 cube numbers=
- 4.) 238 divided by 17=

# Day 4 Fab four!

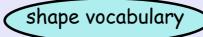
- 1.) 12 x 2.25=
- 2.) 35% of 500=
- 3.) first 5 multiples of 12=
- 4.) 420 divided by 14=

# Day 5 Fab four!

- 1.) 12 x 1.32=
- 2.) 15% of 400=
- 3.) first 5 multiples of 13=
- 4.) 143 divided by 11=

<ul> <li>I can recognise angles where they are on a straight line.</li> <li>I can recognise angles where they meet at a point.</li> <li>I can find unknown angles in any triangles, quadrilaterals, and regular polygons.</li> <li>I can compare and classify geometric shapes based on their properties and sizes</li> <li>I can draw 2-D shapes using given dimensions and angles.</li> <li>I can illustrate and name parts of circles, including radius, diameter and circumference.</li> <li>I can recognise, describe and build simple 3-D shapes, including making nets.</li> <li>I know that the diameter of a circle is twice the radius.</li> <li>I can reflect simple shapes in the axes of the coordinate plane.</li> <li>I can draw and translate simple shapes on the coordinate plane.</li> <li>I can describe positions on the full coordinate grid.</li> <li>I can find missing angles.</li> <li>I can recognise angles where they are vertically opposite.</li> </ul>	<ul> <li>I can recognise angles where they meet 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						I can describe positions on the full coordinate grid.
I can recognise angles where they are vertically opposite.	I can recognise angles where they are vertically opposite.	I can recognise angles where they are vertically opposite.	I can recognise angles where they are vertically opposite.	☐ I can recognise angles where they are vertically opposite.	☐ I can recognise angles where they are vertically opposite.	I can find missing angles.
						I can recognise angles where they are vertically opposite.

LO: I know properti	ies of 2D shapes
	What do we know about this shape? With your partner write down 5 or more facts. Use mathematical language.



#### What do we need to know?

\*vertices

\*sides

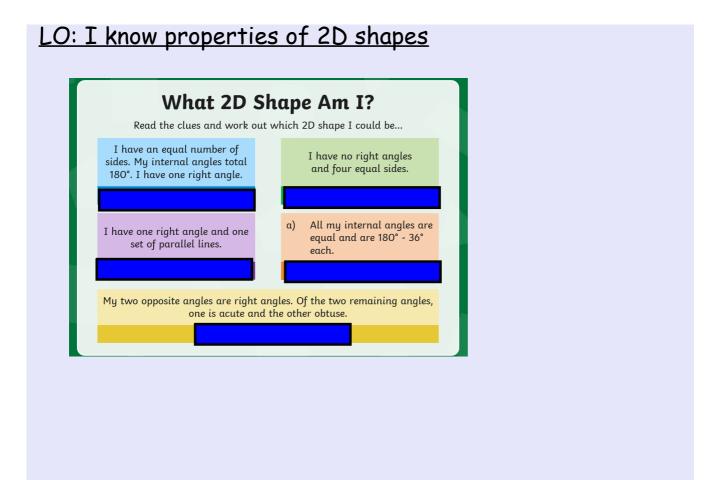
Revise this language- you could use 'maths is fun' website to help you.

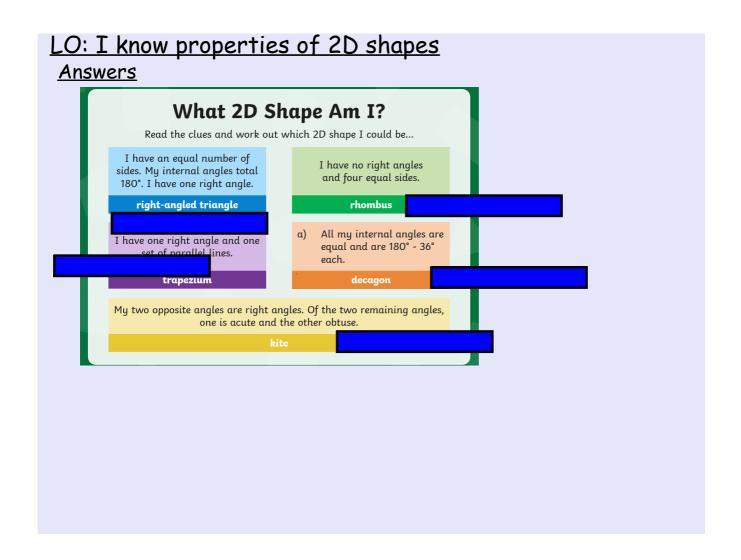
\*angles

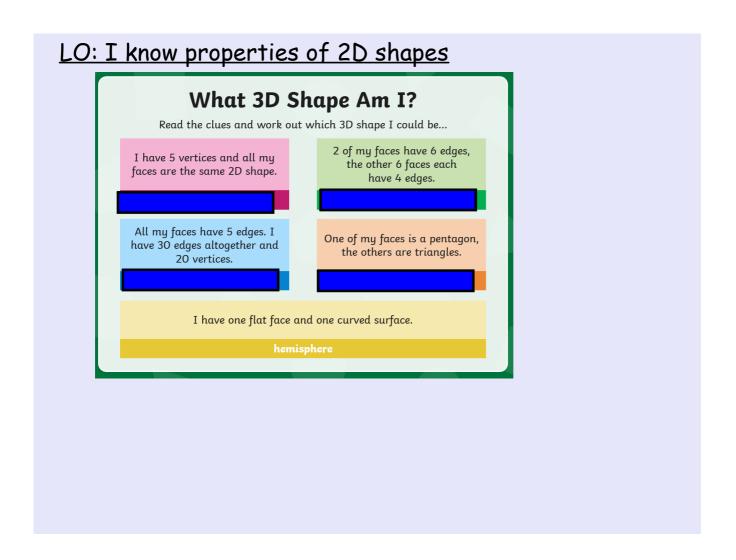
\*lines

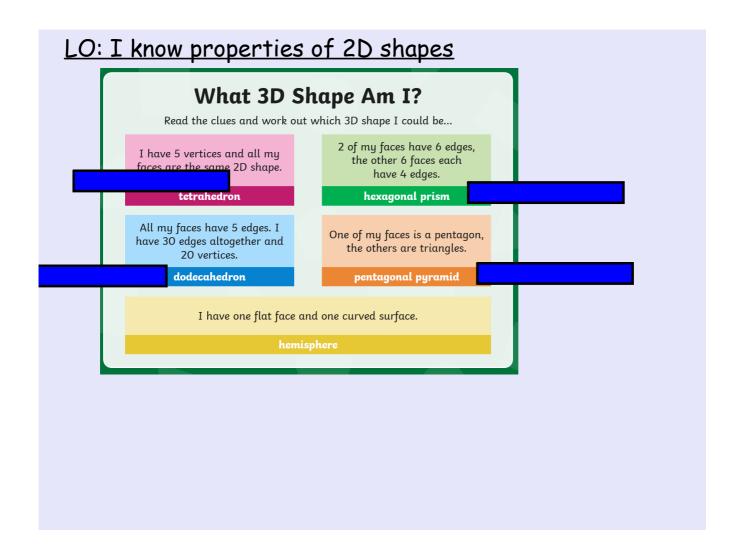
\*names

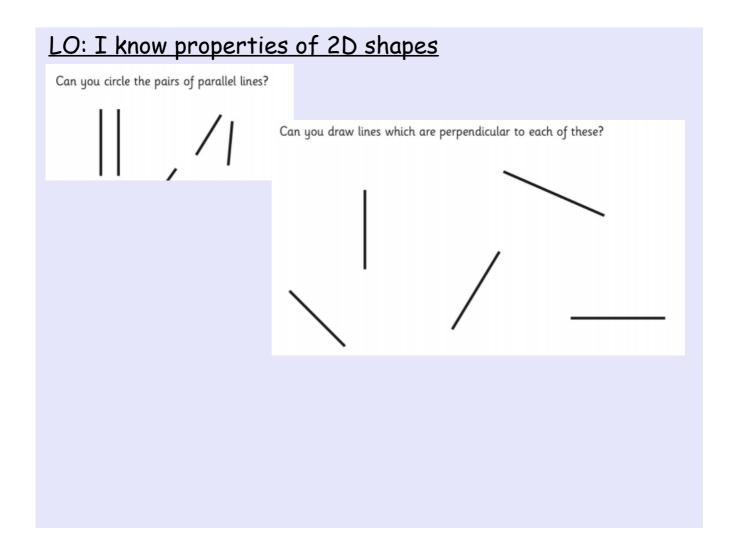
\*parts of circle







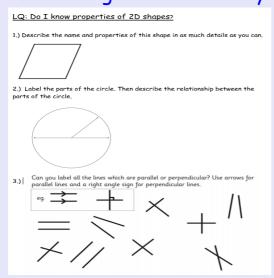




25.3.19

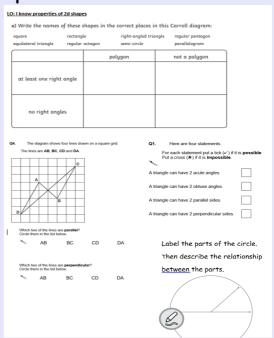
Answer the questions on your chosen spice level. You will need to copy the drawings or table onto your paper.

Mild

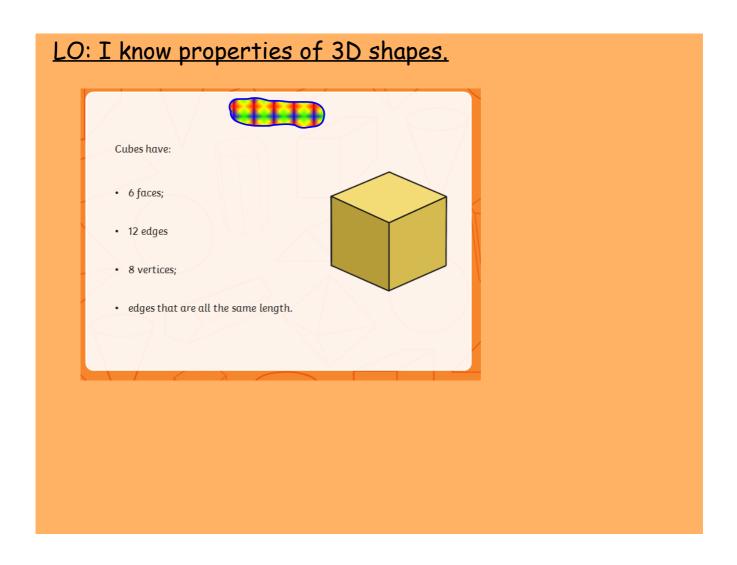


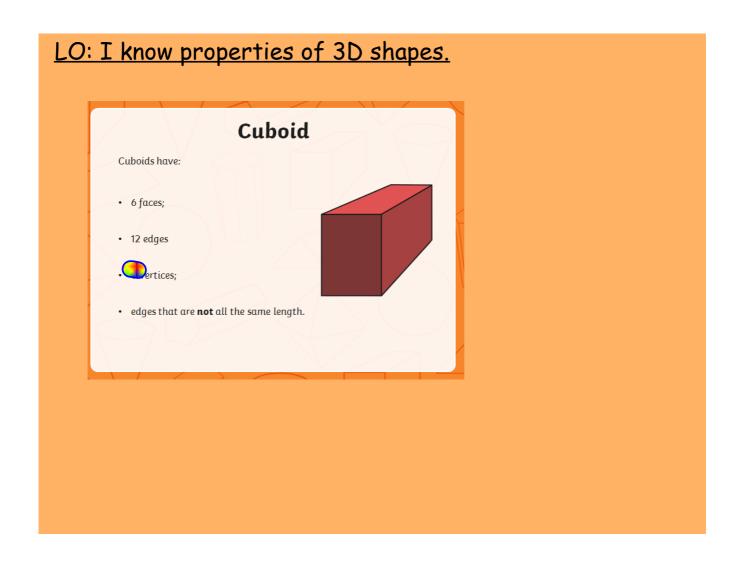
Answer the questions on your chosen spice level. You will need to copy the drawings or table onto your paper.

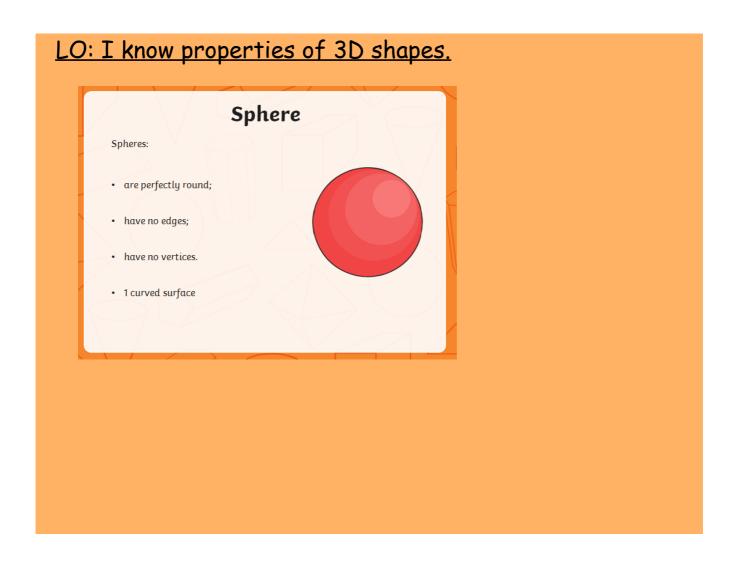
Spicy

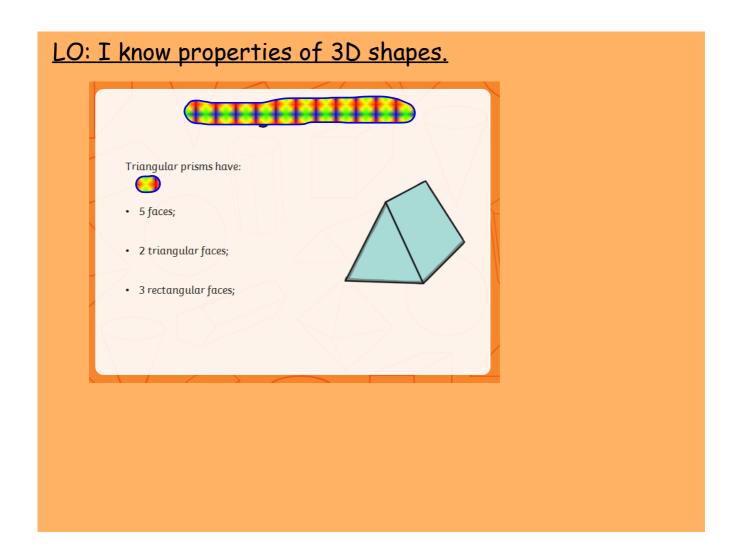


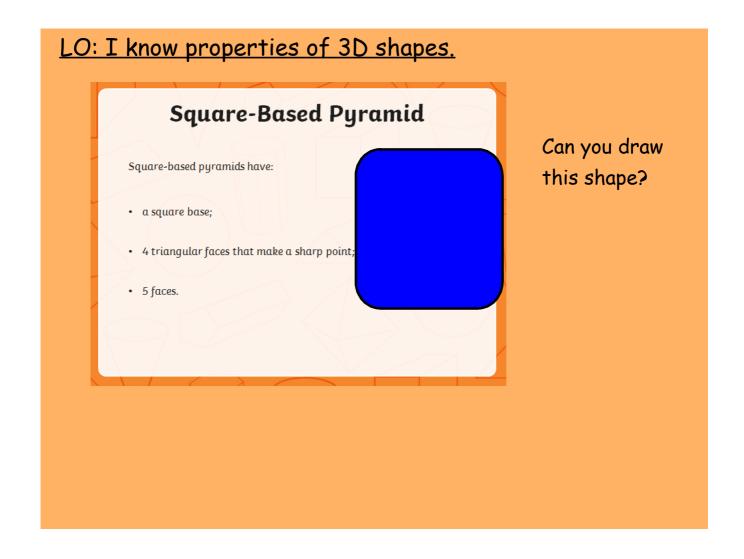
Which 3d shapes do we know?

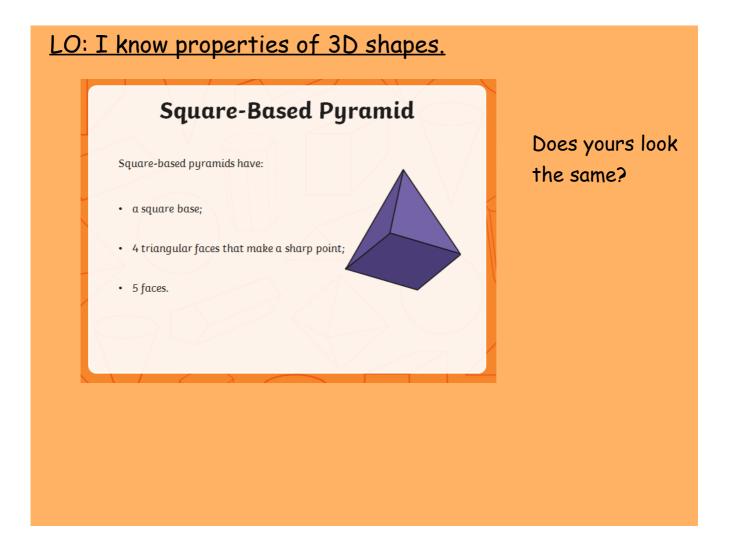


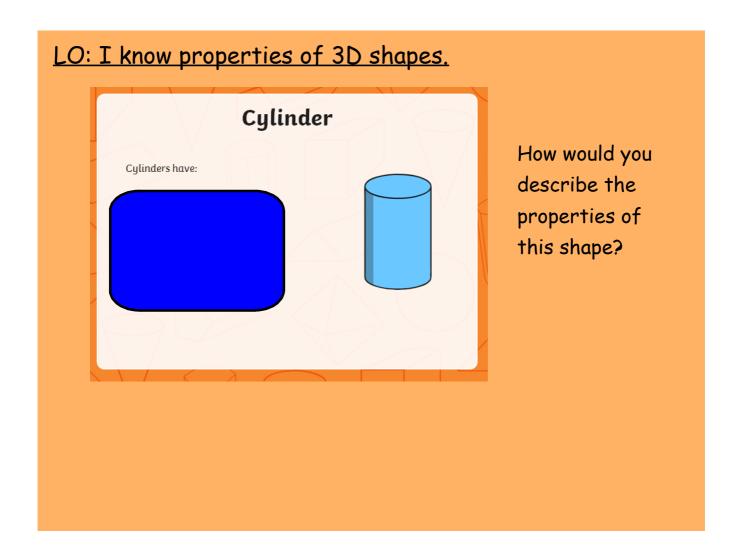


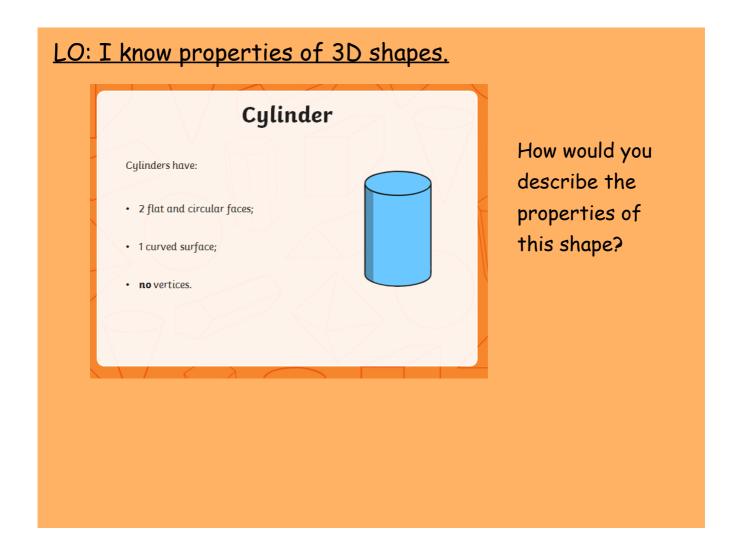


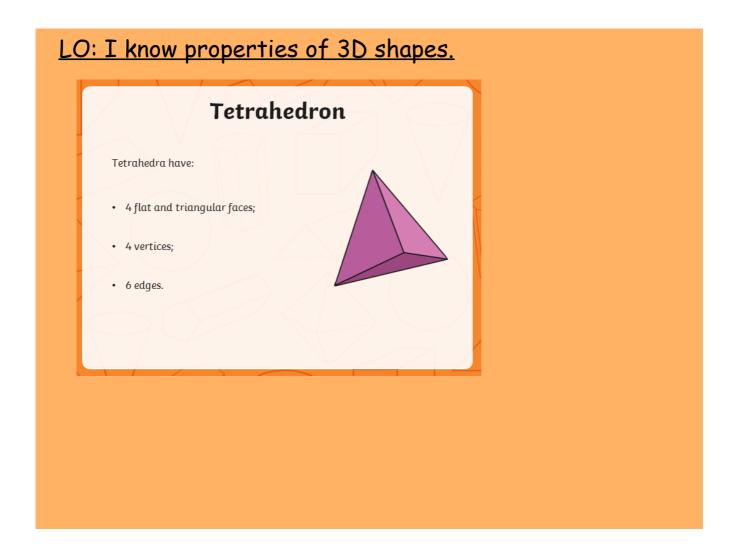


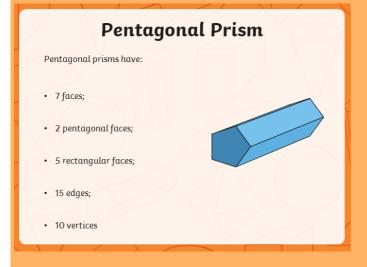




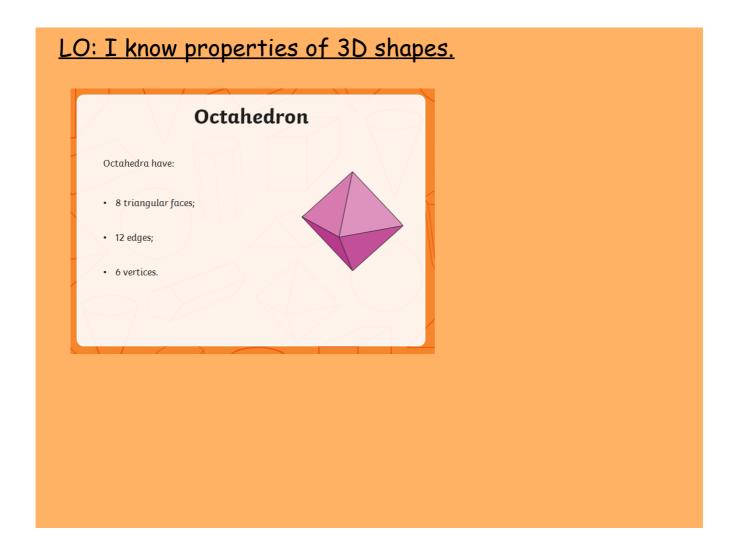


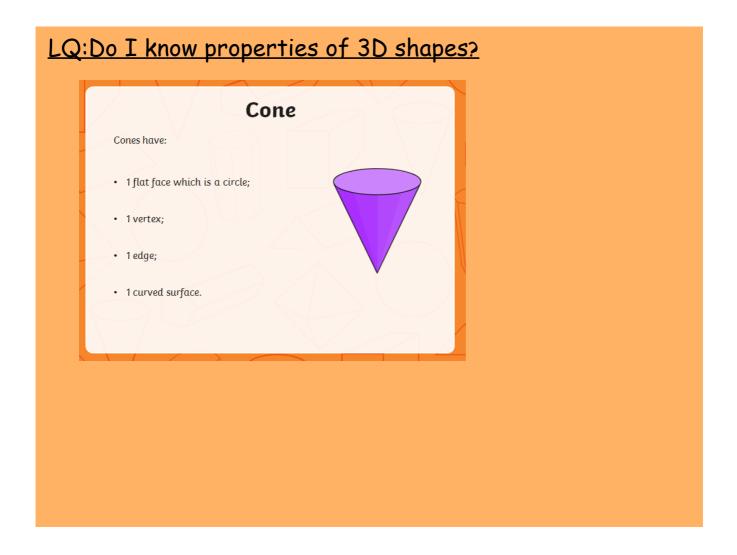


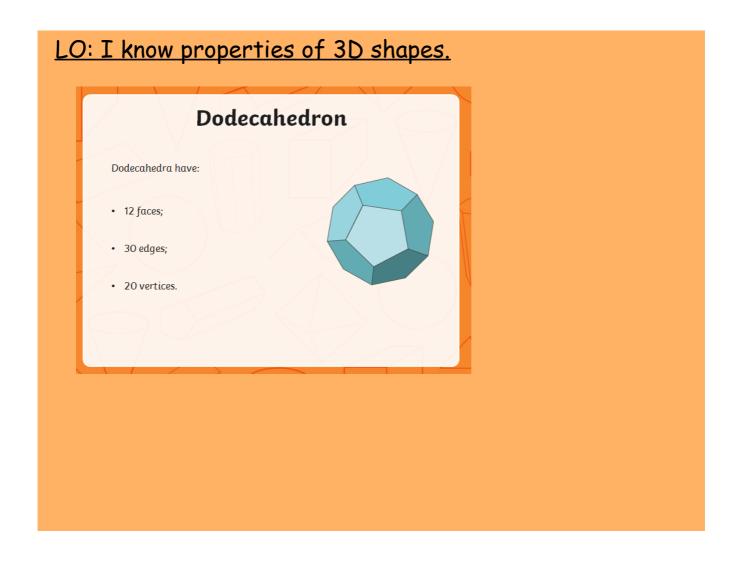


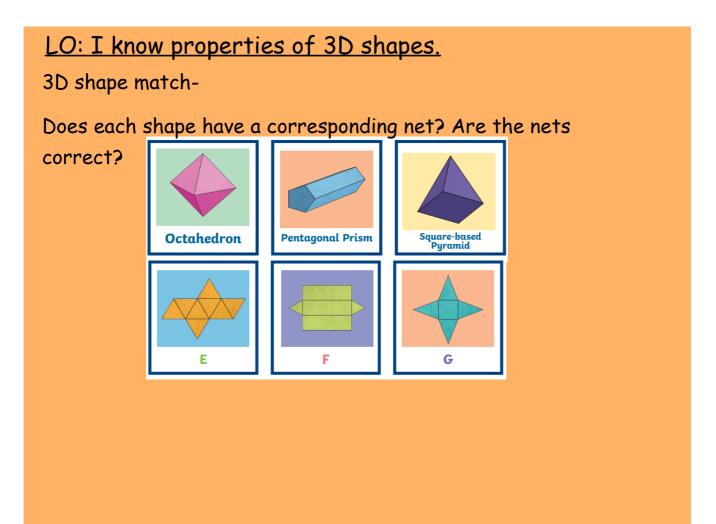


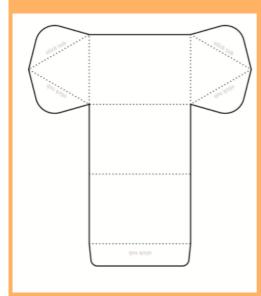
Similar to hexagonal prism & octagonal prism











Which shape do you think this net would create when you folded it up? Explain your answer.

Then write a description of any chosen 3D shape, listing all its properties. Have a good at drawing your 3d shape too.

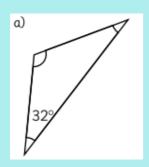
#### Sorting 3D shapes

https://mathsframe.co.uk/en/resources/playgame/115

#### LO: I can find missing angles.

What do we know about angles?

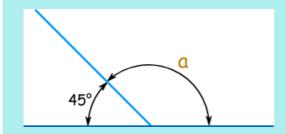
### LO: I can find missing angles.



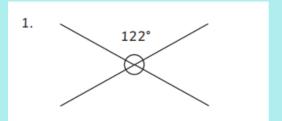
angles in a triangle=

SO....

### LO: I can find missing angles.

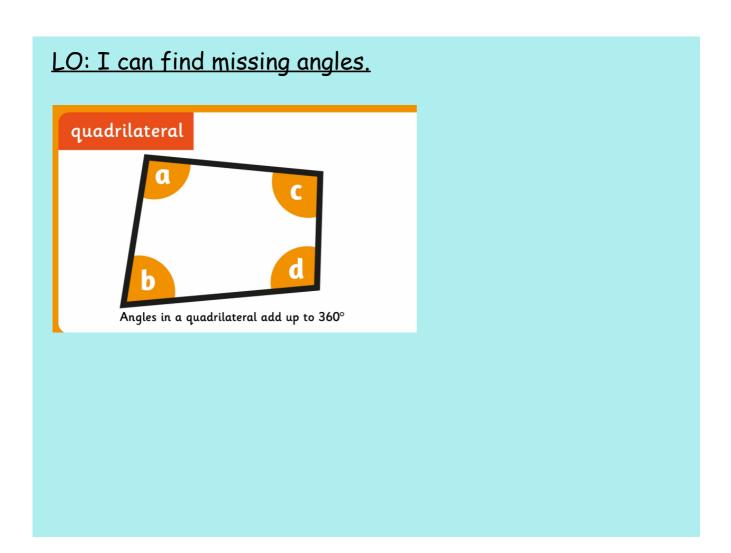


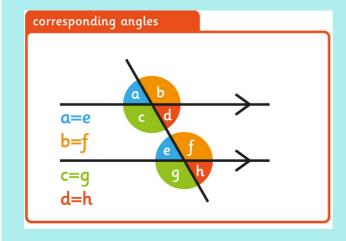
angles on a straight line= so....

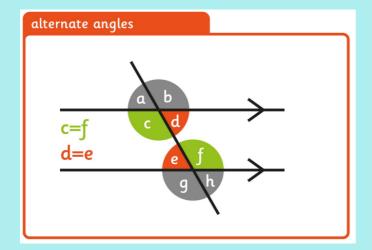


angles around a point= opposite angles=

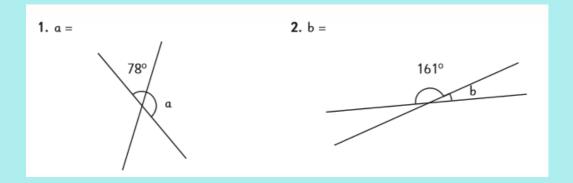
SO....



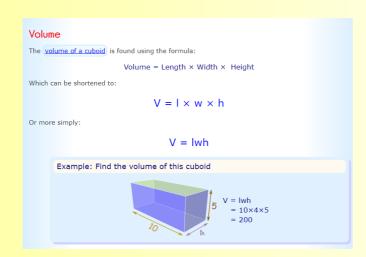


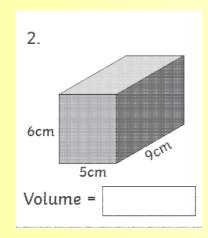


Can you spot the pattern?

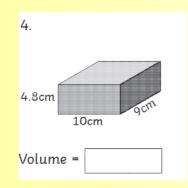


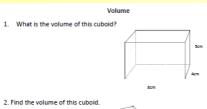
## LO: I can find missing angles. Spicy Write out all your calculations. Daisy calculated that the acute angle was 34°. Is she correct? Mild Yes Nο Explain your reasoning ■ Calculate the missing angle X. Do not measure! 128° 23° Yes Νo Is he correct? Yes Nο Explain your reasoning





## What if it has a decimal?







- 3. The length, width and height of a cuboid are: 5cm, 2cm and 3cm. What is its
- 4. Find the missing measurements in this table:

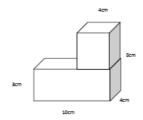
Length	Width	Height	Volume
10cm	4cm	3cm	
	6cm	2cm	60cm³
8cm	2cm		48cm³
10m		6m	180m³
9mm	2mm		72mm³

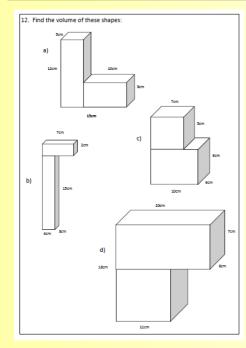
- 5. a) A cuboid has a volume of 72cm<sup>3</sup>. If the length, width and height are all whole numbers, how many different sets of measurements can you find? b) How many can you find for a cuboid with volume 96cm<sup>3</sup>?
- 6. What is the volume of a cube which has an edge measuring 2cm?
- 7. One face of a cube has an area of 25cm<sup>2</sup>. What is its volume?
- 8. The surface area of a cube is 96cm<sup>2</sup>. What is the length of one side? What is its volume?
- 9. A cube has a volume of 216cm3. What is the length of one side?
- 10. Kloggs Cereal Company is wanting to sell its new breakfast cereal—Choco Crispy Poppers. A 500g portion will take up 700cm<sup>3</sup>. The box manufacturer makes 3 sizes of cardboard boxes:

Box	Length (cm)	Width (cm)	Height (cm)	
A	40	4	4	
В	25	5	6	
С	30	6	4	

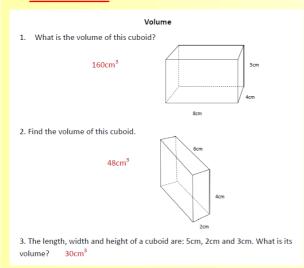
Which box would be most suitable for a 500g portion of Choco Crispy Poppers?

- 11. A cuboid has 3 different sized faces. The areas of 2 of the faces are 84cm<sup>2</sup> and 56cm<sup>2</sup>. The volume of the cuboid is 672cm<sup>3</sup>. Find
- a) the length, width and height of the cuboid.
- b) the area of the third face.
- 12. Find the volume of this shape.





#### **Answers**



#### **Answers**

4. Find the missing measurements in this table:

Length	Width	Height	Volume	
10cm	4cm	3cm	120cm <sup>3</sup>	
5cm	6cm	2cm	60cm <sup>3</sup>	
8cm	2cm	3cm	48cm³	
10m	3cm	6m	180m <sup>3</sup>	
9mm	2mm	4cm	72mm <sup>3</sup>	

 A cuboid has a volume of 72cm<sup>3</sup>. If the length, width and height are all whole numbers, how many different sets of measurements can you find?

Answers for Question 5:	
72 x 1 x 1	96 x 1 x 1
36 x 2 x 1	48 x 2 x 1
24 x 3 x 1	32 x 3 x 1
18 x 4 x 1	24 x 4 x 1
18 x 2 x 2	24 x 2 x 2
12 x 6 x 1	16 x 6 x 1
12 x 3 x 2	16 x 3 x 2
9 x 8 x 1	12 x 8 x 1
9 x 4 x 2	12 x 4 x 2
6 x 4 x 3	8 x 6 x 2
	8 x 4 x 3
	6 x 4 x 4

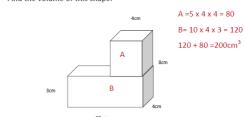
#### **Answers**

- 6. What is the volume of a cube which has an edge measuring 2cm? 8cm³
- 7. One face of a cube has an area of 25cm<sup>2</sup>. What is its volume? 125cm<sup>3</sup>
- 8. The surface area of a cube is 96cm<sup>2</sup>. What is the length of one side? What is its volume? 4cm
- 9. A cube has a volume of 216cm<sup>3</sup>. What is the length of one side? 6cm
- Kloggs Cereal Company is wanting to sell its new breakfast cereal—Choco Crispy Poppers. A 500g portion will take up 700cm<sup>3</sup>. The box manufacturer makes 3 sizes of cardboard boxes:

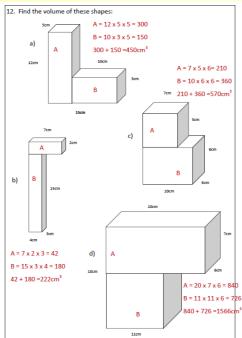
Box	Length (cm)	Width (cm)	Height (cm)	Volume cm <sup>3</sup>
A	40	4	4	640
В	25	5	6	750
С	30	6	4	720

Which box would be most suitable for a 500g portion of Choco Crispy Poppers?

- 11. A cuboid has 3 different sized faces. The areas of 2 of the faces are  $84 cm^2$  and  $56 cm^2$ . The volume of the cuboid is  $672 cm^3$ . Find
- a) the length, width and height of the cuboid. 12cm x 8cm x 7cm
- b) the area of the third face. 96cm<sup>2</sup>
- 12. Find the volume of this shape.







28.3.19

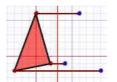
# Reflection Reflections are everywhere ... in mirrors, glass, and here in a lake. ... what do you notice? Every point is the same distance from the central line! ... and ... The reflection has the same size as the original image

28.3.19

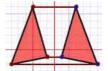
## How Do I Do It Myself?

Just approach it step-by-step. For **each corner** of the shape:

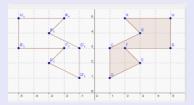
- 1. Measure from the point to the mirror line (must hit the mirror line at again on the other side and a right angle)
- 2. Measure the same distance 3. Then connect place a dot.



the new dots up!



- 1.) Fold an A4 page (or whatever size paper you have).
- 2.) On one side draw a shape pattern.
- 3.) If you have a ruler, use it to measure your lines carefully. the reflect the shape pattern on the other side. Use a ruler to try and get the measurements exactly the same.



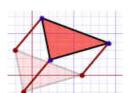
P.s. i know most of you don't have squared paper-just try your best!:)

In Geometry, "Translation" simply means **Moving** ...

... without rotating, resizing or anything else, just moving.

To Translate a shape:

Every point of the shape must move:



- the same distance
- · in the same direction.

Have a go at translating and reflecting shapes on this game.

It is a little confusing to start but play around and you'll get the idea!:)

