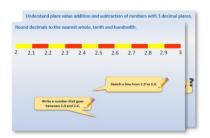
## Week 14, Day 5

# **Pyramids**

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.

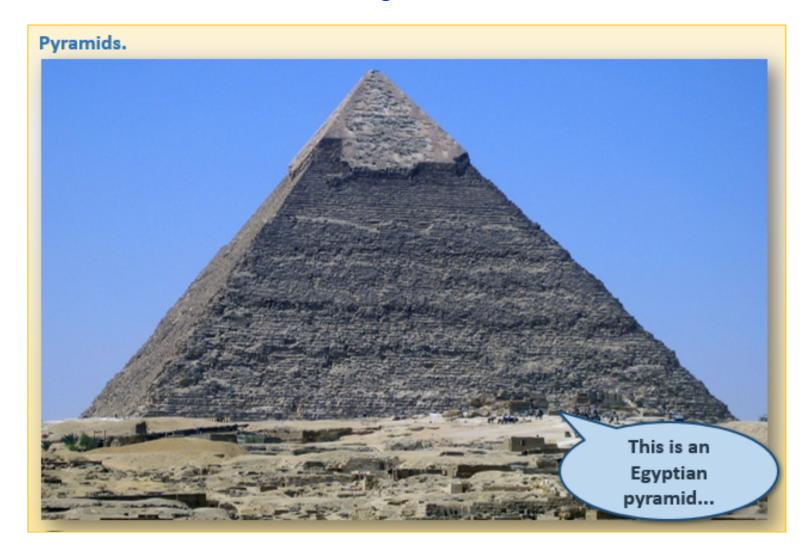


2. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

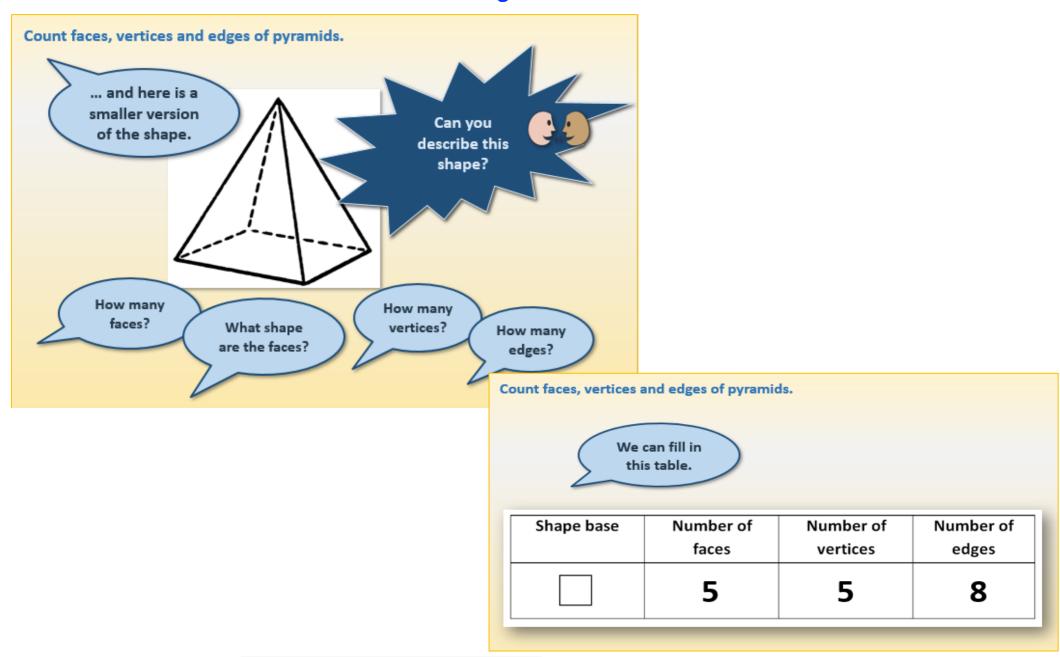


3. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

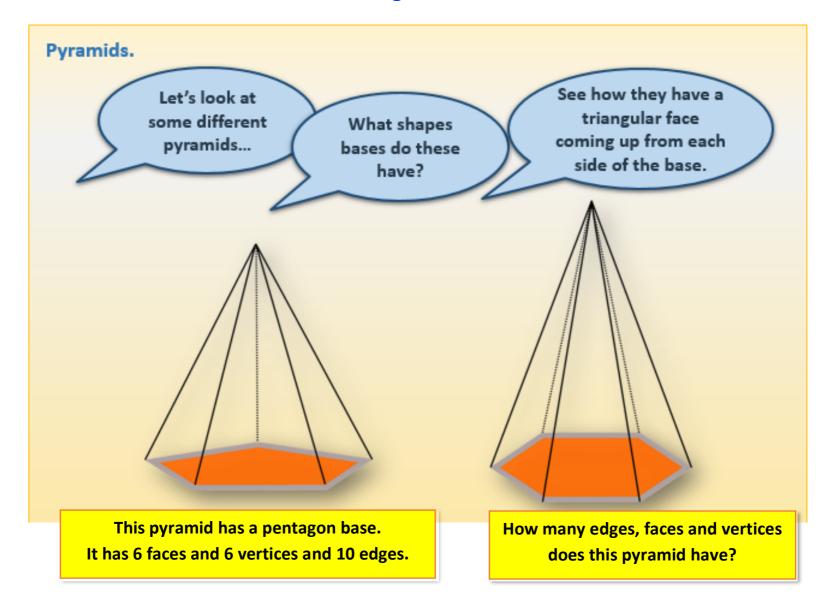
# **Learning Reminders**



# **Learning Reminders**



## **Learning Reminders**



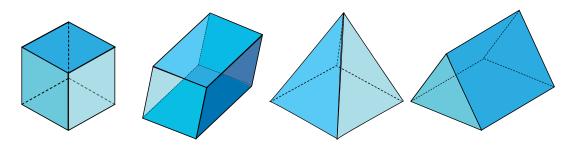
### A Bit Stuck? Skeletons

### Things you will need:

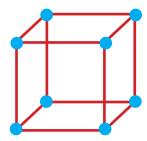
- Straws, lolly sticks or dry spaghetti
- · Plasticine, Blu-tac or mini-marshmallows
- Scissors



Choose one of these shapes.



- You are going to use straws/ lolly sticks/ dry spaghetti to make a skeleton of the shape, using plasticine/ Blu-tac / mini-marshmallows to join them together!
- Can you work out how many straws you are going to need?
  Are they all going to be the same length or different lengths?
- How many blobs of plasticine etc. will you need?



· Repeat with at least one more shape.

## **Investigation**

## **Pyramids**

#### You will need:

- Pyramid nets (see resource)
- scissors

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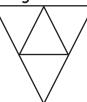
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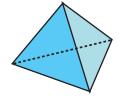
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- sticky tape
- Look at this net for a triangle-based pyramid. The triangles can be folded up to form a triangle-based pyramid or tetrahedron.





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- Each of the nets below will form pyramids in a similar way. The next one is a square-based pyramid, and so on.
- Cut out nets of pyramids. Use them to make pyramids with different shaped bases.
- Count the number of faces, vertices and edges on each pyramid, then record this in the 'Pyramid properties' table below.
- Do you notice any patterns?
- After the first few, try to predict the next numbers that you will write in the table.

#### **Pyramid Properties**

Shape base		Number of faces	Number of vertices	Number of edges
	Triangle	4	4	6
	Square	5		

#### Challenge

Predict the number of faces for a pyramid with a 10-sided shape (a decagon) as its base.

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4 + ? = x cm³ ½ ÷ £ ½ > m² + % < % - cm ? + ÷ ½

