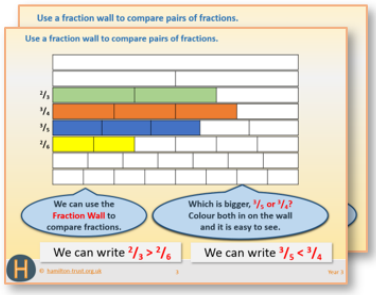
Year 5: Week 5, Day 5

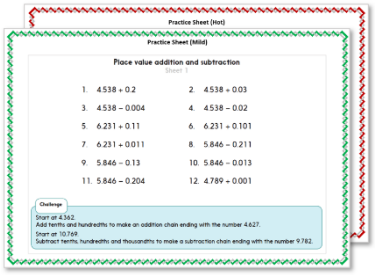
Describe properties of prisms and pyramids.

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

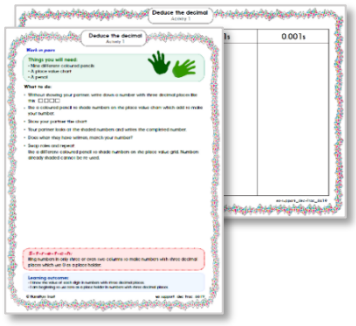
1. Start by reading through the **Learning Reminders**.
   They come from our *PowerPoint* slides.



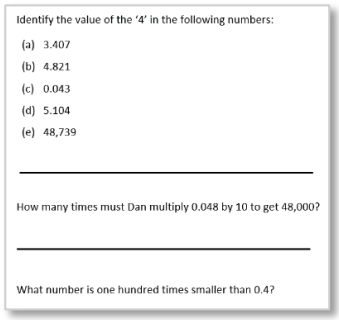
2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or Hot (harder)!
   Check the answers.



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



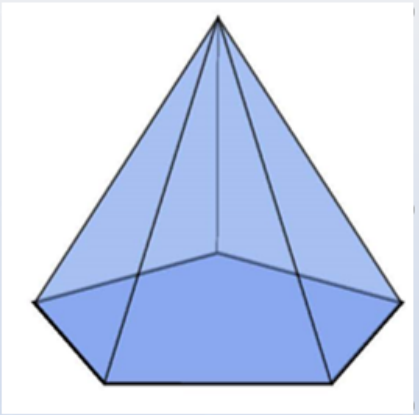
4. Have I mastered the topic? A few questions to **Check your understanding**.
   Fold the page to hide the answers!

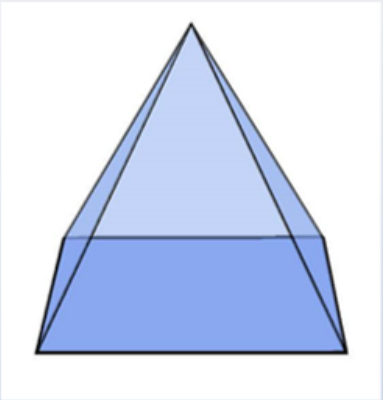


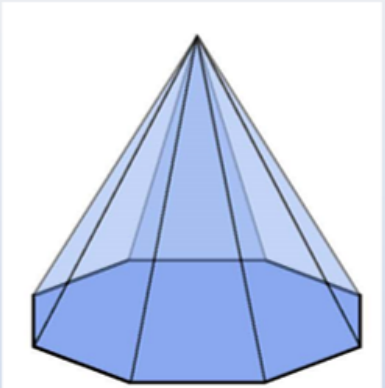
Learning Reminders

Describe properties of prisms and pyramids.

There are lots of types of *pyramid*, with different 2-D shapes on their bases.







What do pyramids have in common?

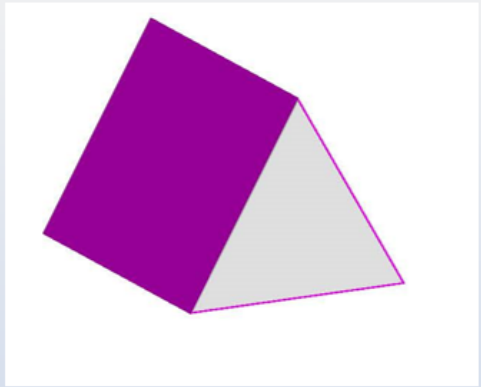
They have a polygon as one face, and triangles as the other faces.

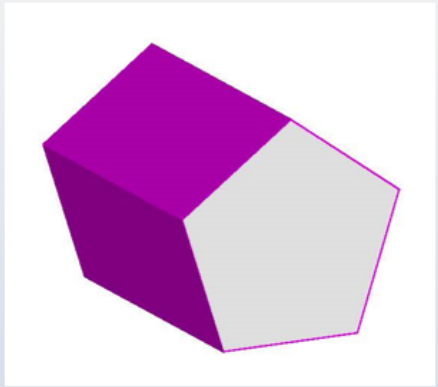
So a cone (circular base) is not a pyramid!

Learning Reminders

Describe properties of prisms and pyramids.

There are lots of types of *prisms*, with different 2-D shapes at each 'end'.





What do prisms have in common?

The two faces on either end are the same type of polygon (they have straight sides).
These faces are joined by rectangles (which could include squares).

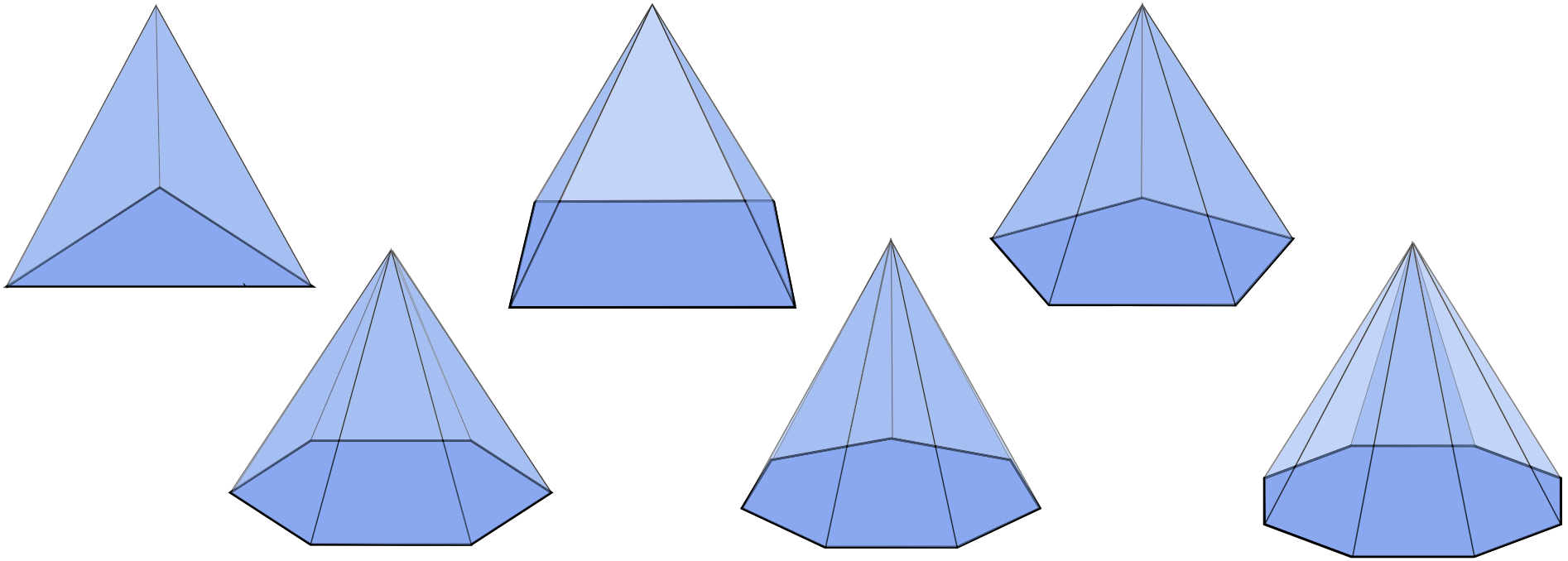
So a cylinder is not a prism!

What type of prism is a cuboid?
Is a cube a prism?

Practice Sheet Mild

Pyramids

- For each pyramid, record, in a table, the name of the base shape, the number of faces and the number of vertices.
- Do you notice any patterns in the lists of numbers? Describe them...
- Can you explain the patterns?
  [HINT – compare the number of faces to the number of sides of the 2-D 'base' shape.]



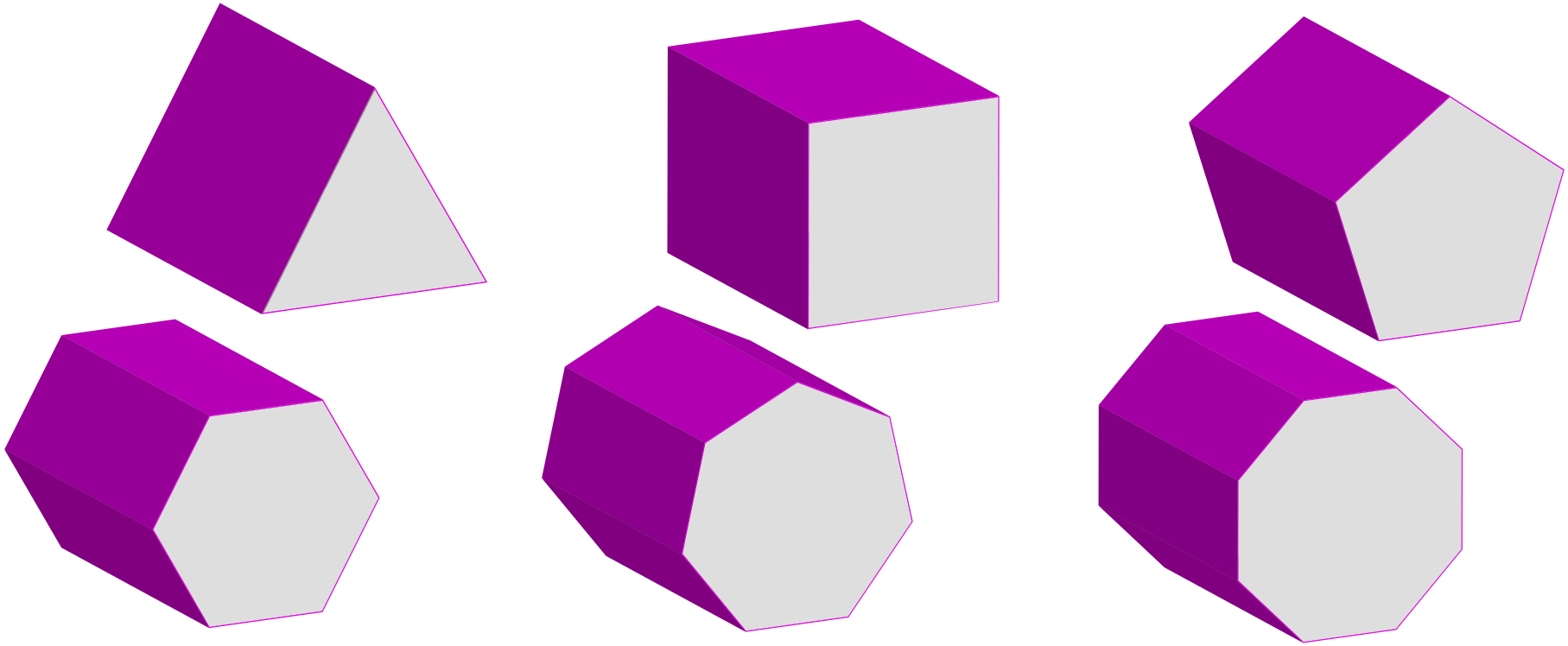
Challenge

Can you predict the number of faces and vertices for a pyramid with a 10-sided base?

Practice Sheet Hot

Prisms

- Draw and complete a table for each 3-D shape, showing the shape of the two 'end' faces, the total number of faces, and the number of vertices.
- Do you notice any patterns in the lists of numbers? Describe them...
- Can you explain the patterns?



Challenge

Can you predict the number of faces and vertices for a prism with 9- sided 'end' faces? 10-sided 'end' faces? 100-sided 'end' faces?!