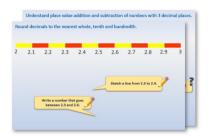
Week 10, Day 5

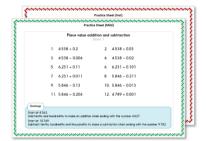
3-D shape (2)

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.



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

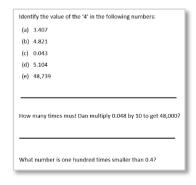


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

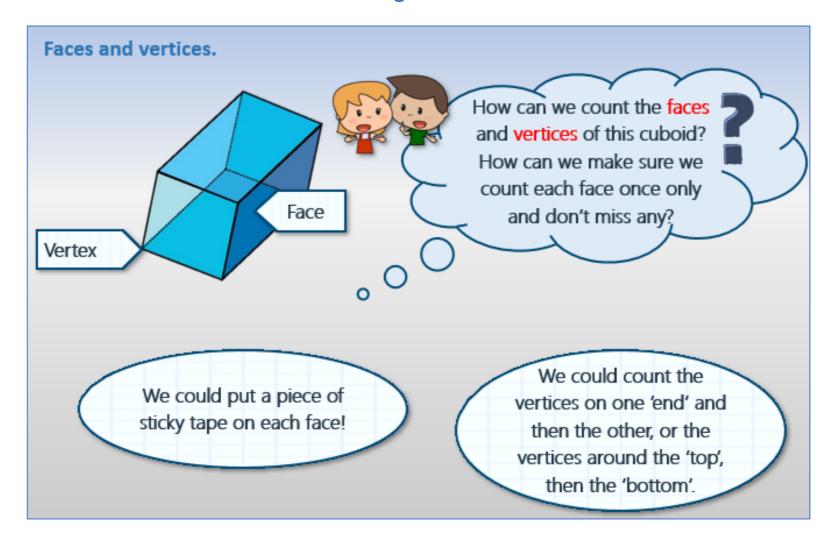


4. Have I mastered the topic? A few questions to **Check your understanding**.

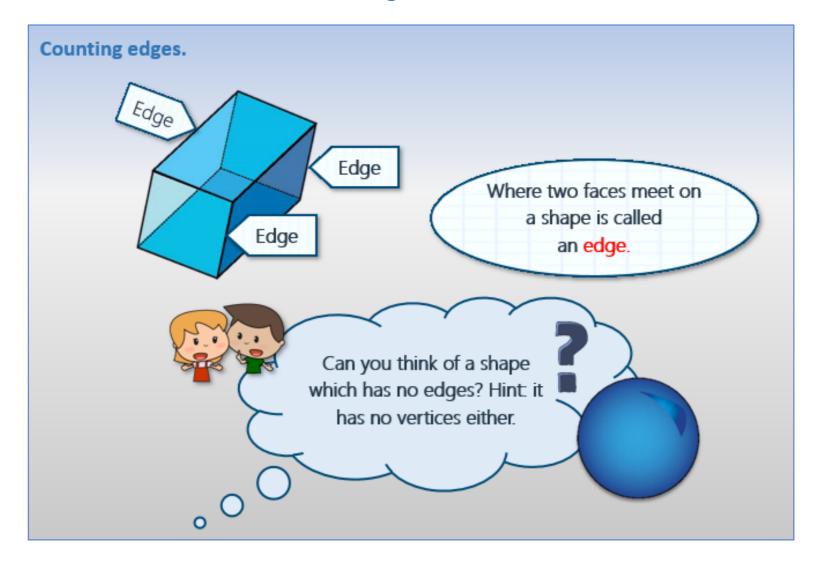
Fold the page to hide the answers!



Learning Reminders



Learning Reminders



Practice Sheet Mild Faces and vertices

Complete the table – you may use some shapes to help.

Shape	Number of faces	Number of vertices

Challenge

Find one more 3-D shape and add its information to the table.

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Practice Sheet Hot Faces, vertices and edges

Complete the table – you may use some shapes to help.

Shape	Number of faces	Number of vertices	Number of edges

Challenge

Find one more 3-D shape and add its information to the table.

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Practice Sheet Answers

Practice Sheet (Mild)

Shape	No. of faces	No. of vertices
Cube	6	8
Square-based pyramid	5	5
Triangular prism	5	6

Practice Sheet (Hot)

Shape	No. of faces	No. of vertices	No. of edges
Cube	6	8	12
Square-based pyramid	5	5	8
Triangular prism	5	7	9

A Bit Stuck? Smiley faces

Work in pairs

Things you will need:

- At least three different shapes from around the home, e.g. cube, cuboid and cylinder
- Post-it notes
- Pen

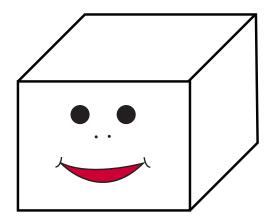


What to do:

 Choose one shape. Draw a smiley face on a Post-it and stick it to one face of the shape.

Your partner draws a tally mark.

- Stick a smiley face on a different face.
 Your partner draws a tally mark.
- Keep going until every face has a smiley face.
 How many faces does this shape have?
- Put the shape back.
 Choose a new shape.
 This time your partner draws the smiley face and you draw the tallies.
- Repeat with other shapes.



S-t-r-e-t-c-h:

Count the vertices of at least two shapes, using blobs of Blu-tac to help keep track.

Learning outcomes:

- I can count the number of faces on 3-D shapes.
- I am beginning to count the number of vertices on 3-D shapes.

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Check your understanding: Questions

What shape am I?

- I have 8 vertices, 12 edges all the same length and six identical faces.
- I have 1 curved face, 2 flat faces and two edges.
- I have five flat faces and five vertices.

Say or write one property of each shape, e.g. 'Has 2 flat faces'.

You may not write the same property twice!

- i. Cube
- ii. Cylinder
- iii. Cuboid
- iv. Pyramid

Fold here to hide answers:

Check your understanding: *Answers*

What shape am I?

- I have 8 vertices, 12 edges all the same length and six identical faces. Cube.
- I have 1 curved face, 2 flat faces and two edges. Cylinder.
- I have five flat faces and five vertices. Pyramid.

 Children struggling to visualise this could try to find matching 3-D shapes around the home.

Say or write one property of each shape, e.g. 'Has 2 flat faces.'

You may not write the same property twice!

- i. Cube e.g. 6 flat faces, 6 square faces.
- ii. Cylinder e.g. two circular faces.
- iii. Cuboid e.g. opposite faces are similar rectangles.
- iv. Pyramid e.g. has flat faces (5 faces if it is square-based).