

Maths Sessions

Week beginning 1st February

Welcome to this weeks Maths!

When tasks are completed, please use PurpleMash to email these to the appropriate teacher for marking and feedback.



CHALLENGE



This week we'd like to challenge you to see if you can get 500 points on Mathletics!



I wonder which class will have the most children getting 500 points?

Monday 1st February

First, let's warm up by practising these questions.
Remember to make jottings (do drawings) if you need to).

Flashback 4

Year 2 | Week 2 | Day 1

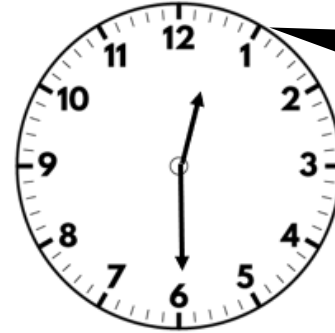
1) Is 14 odd or even?

2) What is $18 \div 2$?

3) There are 5 pencils in a pot.
How many pencils in 3 pots?



4) How many tens are there in 24?

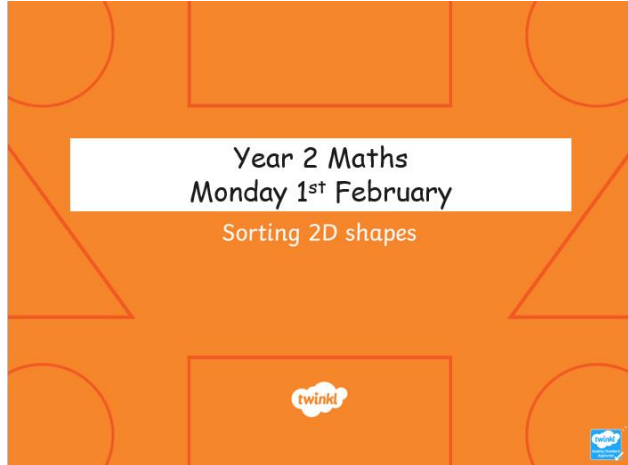


How far has the minute hand moved around the clock?

Today we are going to look at ways that we can sort 2D shapes.

There is a video on the school YouTube channel with information for today's lesson.

<https://www.youtube.com/channel/UCq2Lj2zTdT4u5qOPwZttcEA>



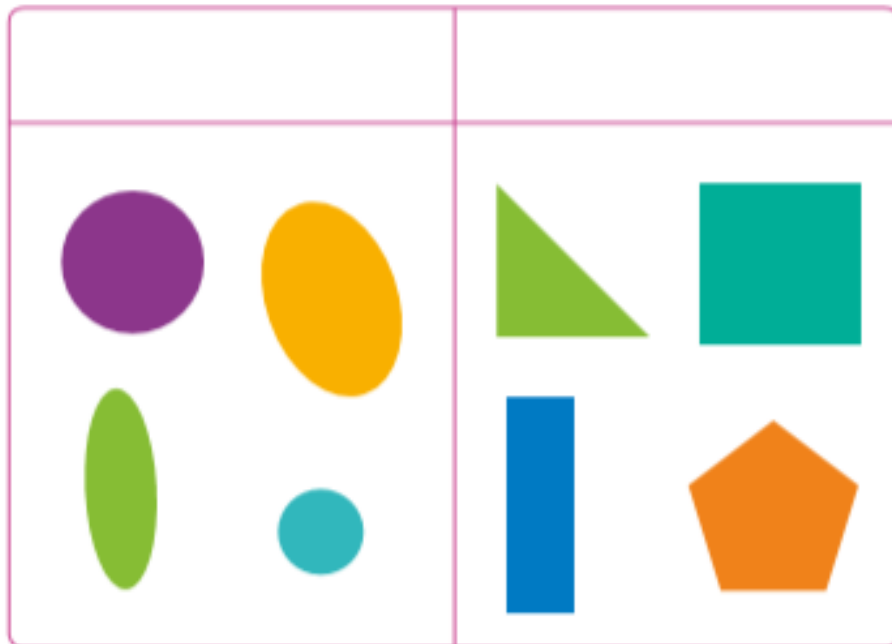
Check the next slide for an activity to do...

Sort 2D Shapes



How have these shapes been sorted?

Label each group.



What other shapes could go in each part?

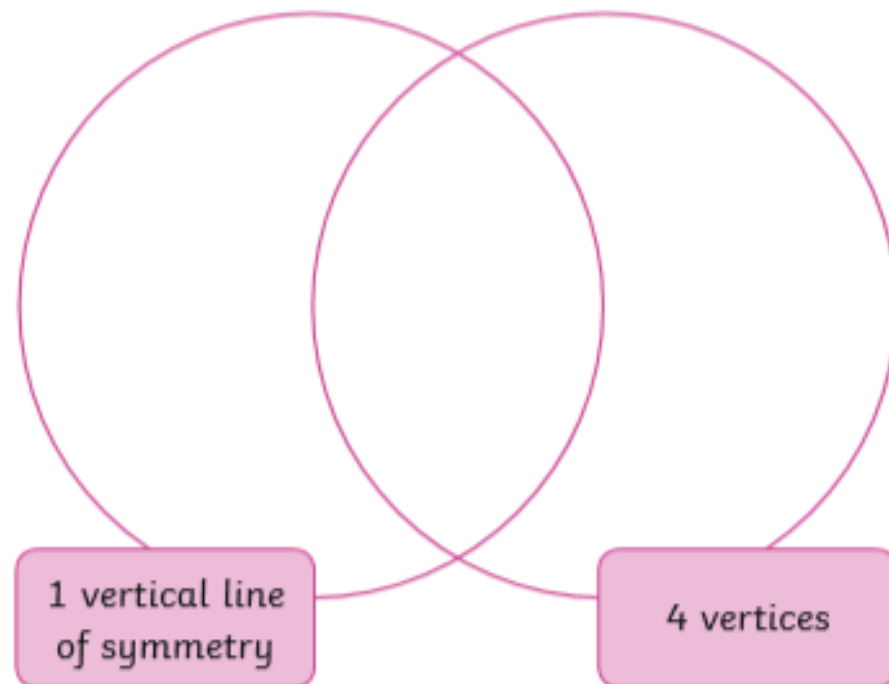
How else could you sort these shapes?

Make labels for each group.

Sort 2D Shapes

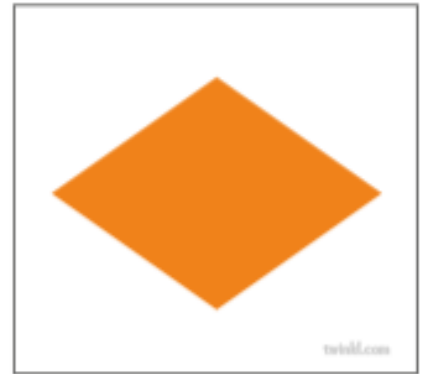
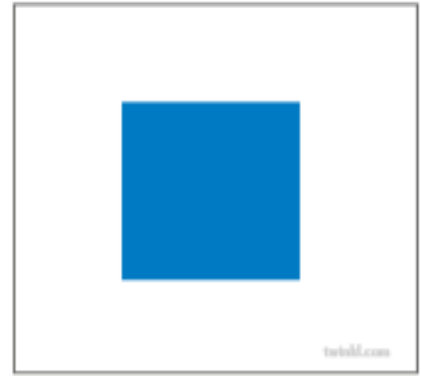
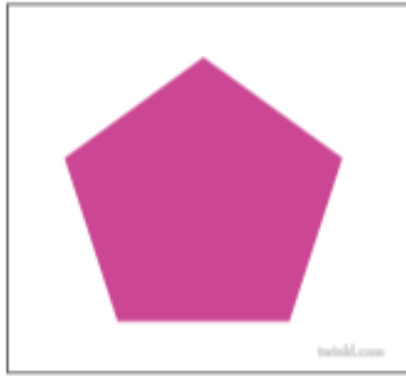


Sort these 2D shapes using the Venn diagram.



Add one more shape to each section.

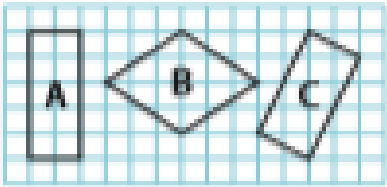
If you would like to, you can use these shapes, or draw your own and explore other ways that you can sort the shapes.



Want an extra challenge?

Captain Conjecture says, 'All of these shapes are rectangles because they have four sides.'

Do you agree?



Explain your reasoning.



Don't forget your Mathletics challenge too!



Tuesday 2nd February

First, let's warm up by practising these questions.
Remember to make jottings (do drawings) if you need to.

Flashback 4

Year 2 | Week 2 | Day 2

Remember the phrase, 'how many 5s in 20' to help you.

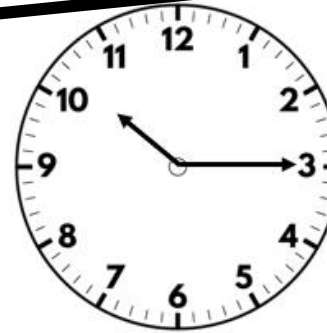
1) Divide 20 by 5

2) What is $20 \div 10$?

3) How much money altogether?



4) How many tens are there in 87?



How much would there be if these were 10 pence pieces?

Today we are going to think about patterns with 2D shapes.

Watch this video:

<https://classroom.thenational.academy/lessons/describing-and-creating-shape-patterns-cdhpac?activity=video&step=2&view=1>



Can you spot any 2D shape patterns in your house?

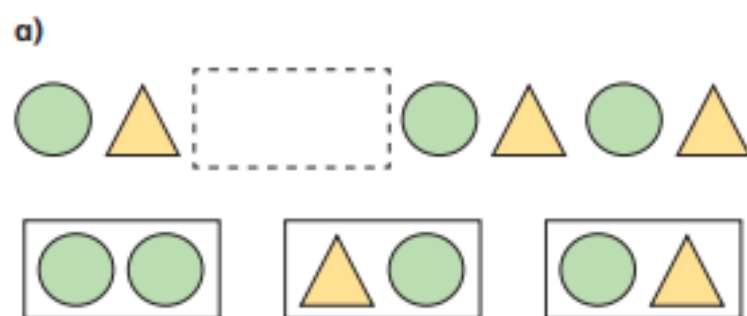
Check the next slide for an activity to do...

Make patterns with 2D shapes

1 Draw the next two shapes in each pattern.



2 Tick the shapes that fit in each pattern.

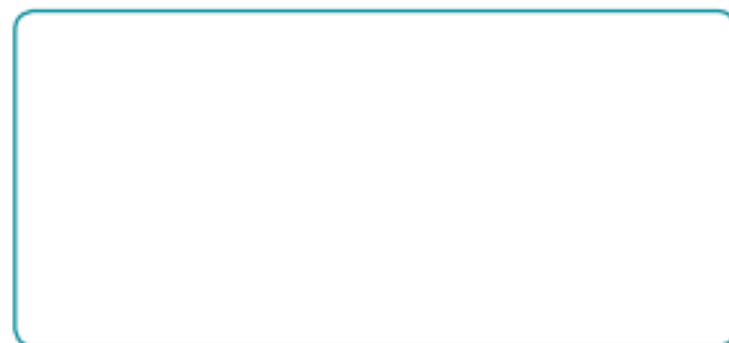


3



My pattern goes:
circle, triangle, square,
then it repeats.

a) Draw the first 9 shapes in Rosie's pattern.



b) What is the name of the 10th shape in the pattern?

c) What is the name of the shape to the right of the 5th shape?

- 4 Mo makes a pattern using 4 rectangles, 4 triangles and 4 circles.

What could Mo's pattern be?

Draw two different possibilities.



- 5 Draw the 10th shape for each pattern.

a)



b)



- 6 Write your own repeating pattern of shapes.

For example: circle, rectangle, rectangle,
circle, rectangle, rectangle ...

_____, _____, _____, _____,
_____, _____, _____, _____

Swap with a partner and draw each
other's patterns.

- 7 Draw a shape in each box to make a
repeating pattern.

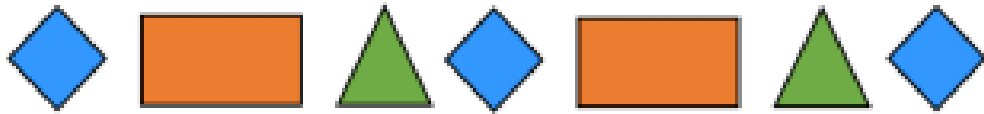
You may want to practise on a whiteboard.



Remember to email us your work
when you have finished.

Want an extra challenge?

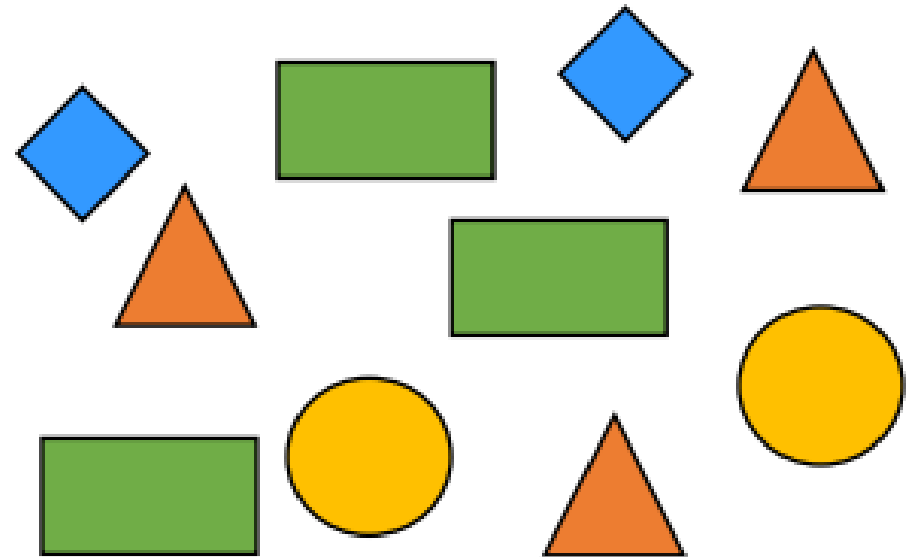
Dora says that the 12th shape in this pattern will be a triangle.



Is she correct?

How do you know?

How many different ways can you arrange these shapes to make a repeating pattern?



Wednesday 3rd February

First, let's warm up by practising these questions.
Remember to make jottings (do drawings) if you need to.

Flashback 4

Year 2 | Week 2 | Day 3

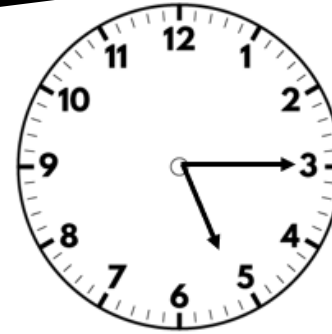
1) Calculate $15 \div 5$

2) Multiply 2 by 7

3) How much money altogether?



4) Find the sum of 22 and 35



Could you use a bar model to help you?

15

Can you prove your answer with jottings?

Today we are going to start thinking about naming 3D shapes.
Start by sorting these objects to match their shape name.

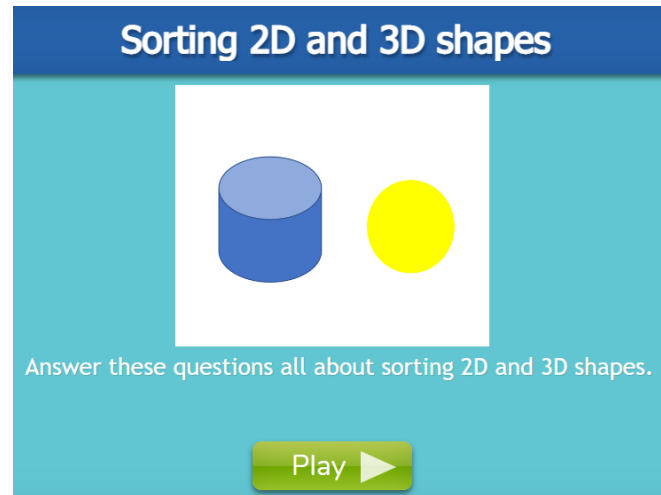
cube	cuboid	sphere
cylinder	square-based pyramid	cone





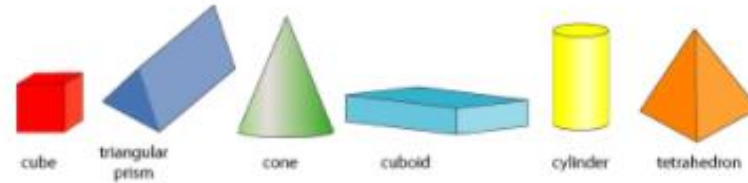
Your next task today is on PurpleMash

Check your 2Do section for an activity called 'Sorting 2D and 3D shapes'.

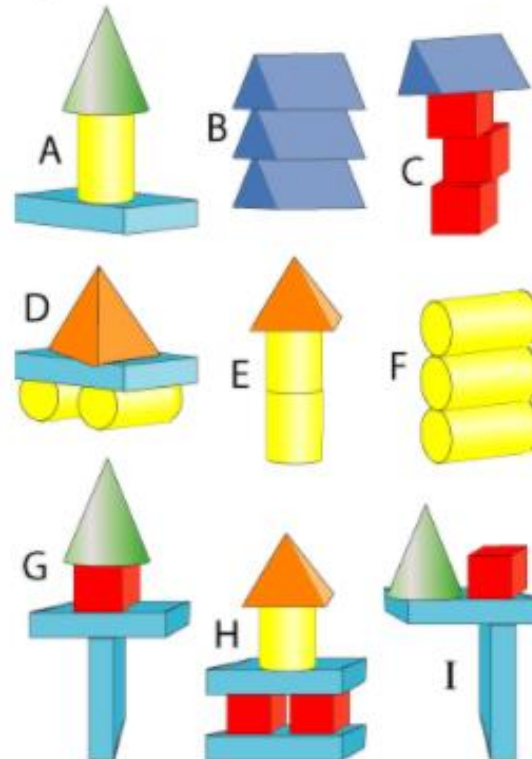


Want an extra challenge?

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



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



Don't forget your
Mathletics challenge too!



Thursday 4th February

First, let's warm up by practising these questions.
Remember to make jottings (do drawings) if you need to.

Flashback 4

Year 2 | Week 2 | Day 4

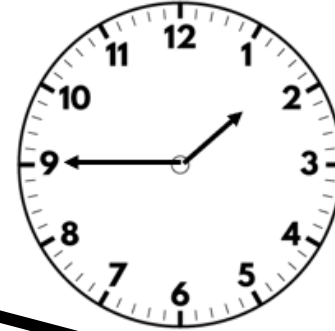
1) Calculate $80 \div 10$

2) Multiply 5 by 6

3) How much money altogether?



4) Find the sum of 26 and 44

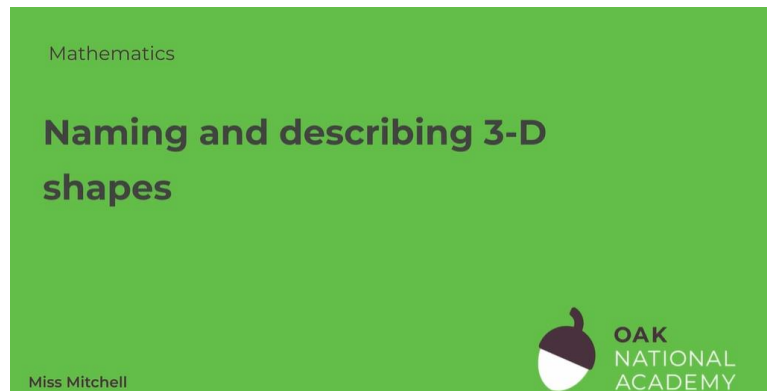


Maybe you could draw a bar model to help you. How many 10s are there in 80?

Today we are going to think about the vocabulary that we use to describe 3D shapes.

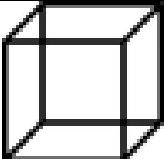
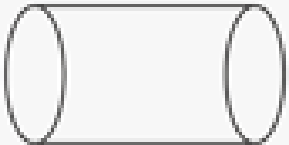
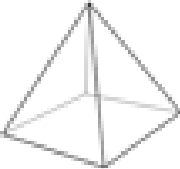
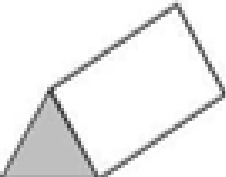
Watch this video to find out more...

<https://classroom.thenational.academy/lessons/naming-and-describing-3d-shapes-c9gkec?activity=video&step=2&view=1>



Check the next slide for an activity to do...

You could print or copy this table. Remember to email it to us when you have finished.

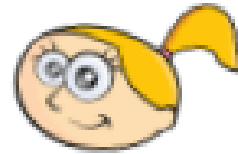
	Name	Number of faces	Number of edges	Number of vertices
				
				
				
				
				
				
				

Want an extra challenge?



There is a 2Do called 3D shapes set for you on PurpleMash.

Eva says her 3-D
shape has 12 edges.



Dora says she could have a cube, cuboid
or square-based pyramid.

Is Dora correct?
Explain your answer.

Don't forget your
Mathletics challenge too!



Friday 5th February

First, let's warm up by practising these questions.
Remember to make jottings (do drawings) if you need to.

Flashback 4

Year 2 | Week 2 | Day 5

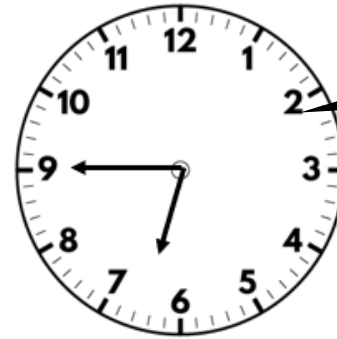
1) What is $40 \div 10$?

2) Divide 40 by 5

3) How much money altogether?



4) Find the difference between 100 and 65



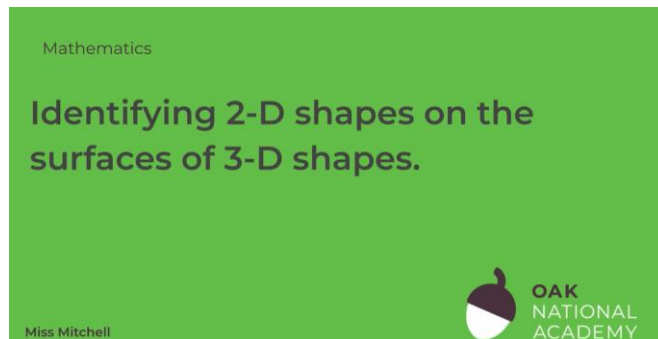
What time is it?

Can you remember what difference means?
Remember we can solve this by either counting on or subtracting.

You may have spotted that the faces of 3D shapes are 2D shapes.

Watch this video to find out more...

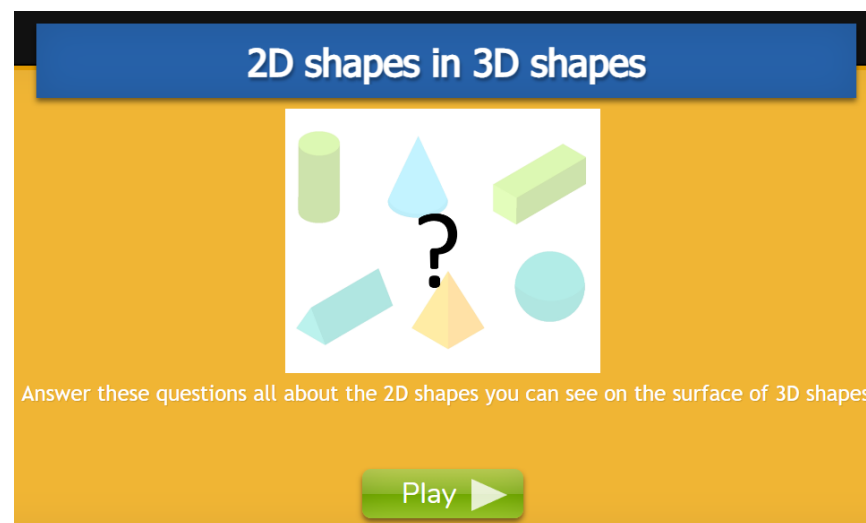
<https://classroom.thenational.academy/lessons/identifying-2-d-shapes-on-the-surfaces-of-3d-shapes-70wk8c?activity=video&step=2>



Check the next slide for an activity to do...

Your next task today is on PurpleMash

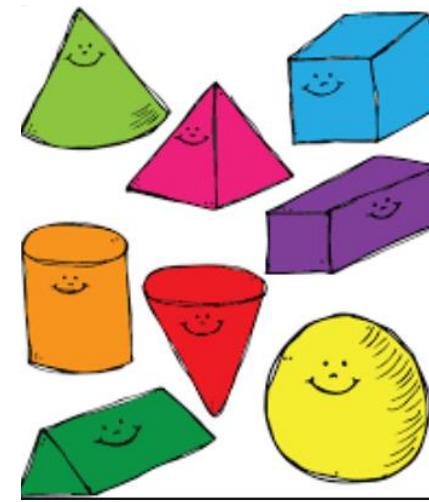
Check your 2Do section for an activity called '2D shapes in 3D shapes'.



For an extra challenge you could collect some 3D shapes from around the house and write some descriptive labels to go with them.



This tin has no vertices, 3 faces and 2 edges. 2 of the faces are circles. It is a cylinder.



Don't forget your Mathletics challenge too!

