Maths

Activity 1 & 2 – Watch the videos on 3D shapes and their nets and also on cube models. Then answer the questions below.

Maths Skills Practise:

Daily Challenge:

JUNE MATHS MASTERS

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 What number is represented here: MCCXII?	2 What is double 357? Can you work it out 2 ways?	3 What is 765,551 rounded to the nearest 1000?	4 Is 43 x 10 the same as 4300 ÷ 100? Why?	5 If x – 57 = 35 + 76, what is the value of x?	6 What's missing in this sequence: 3, 6, 10, 15, ___, 28. How do you know?	7 What is 13,563 rounded to the nearest 100? What is the rule?
8 How many degrees in a complete turn?	9 What is 10.7 – 4.9? How did you work it out?	10 If y = 37, what is the value of x in 'y + 67 = x'?	11 One third of a number is 59, what was the number?	12 Which number is bigger: 267676 or 276767? Describe how you know.	13 Calculate 4 x 17 + 4.	14 List all the prime numbers between 30 and 60.
15 (6 x 5) + 6 = 30. Is this right? Why?	16 What is three and two thirds plus two thirds?	17 What is 10 x 13? What other calculations would give you the same answer?	18 What is 4.04 + 2.07 + 9?	19 Put these numbers in descending order: 7543, 3457, 7453, 4753, 5743.	20 How many grams in 4.7kg? How do you know?	21 What time is 22:05 in words? Can you draw it on a clock face?
22 What is today's date in Roman Numerals?	23 What are the properties of a triangular prism? Can you draw one?	24 How many ml in 5.43l?	25 Which fraction is bigger: 3/5 or 40/100? How do you know?	26 Can you draw a regular and an irregular hexagon?	27 Jake says, "If y+7= 5, then y must be 2." Is he right? How do you know?	28 What is 14.3 - 1.7 + 5.2?
29 Joshua says, "the area of my shape is 32cm so the perimeter **must** be 24cm". Do you agree?	30 TRICKY QUESTION: How many minutes in a normal school week?					

Have fun doing a Maths question a day! Challenge yourself to talk to the people at home and show off what you know!

Reasoning & Problem Solving

Try any of the challenges on this website:

http://www.iseemaths.com/lessons56/

Nets of shapes

a) Name three different 3D shapes that have at least one rectangular face.

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b) Name two different 3D shapes that have a curved surface.

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c) Name two different 3D shapes that have more than four but fewer than eight vertices.

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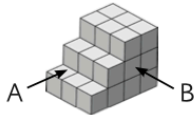Thinking about these 3D shapes, which could be the odd one out and why? Can you think of more than one example?
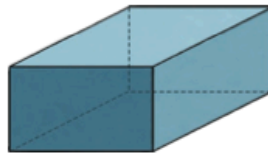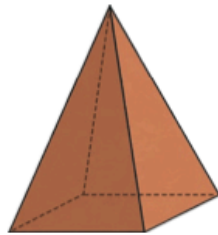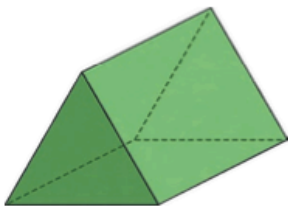
True or False?

a) A cylinder is a type of prism.

b) A cuboid is the only 3D shape to have rectangular faces.

c) A triangular prism has six vertices.
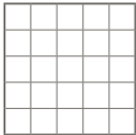
Cube Models

Here is a model made from cubes.

From direction A, the model looks like this.

On the grid, draw what the model looks like from direction B.

Jonah is looking at a cube model.

This cube is made up of 12 multilink cubes.

Do you agree with Jonah? Explain your answer.

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Challenge:

Sinitta has got six cubes: two red, two blue and two green.
She arranges them to make a model, then says,

When I look from a plan view (from the top) I can see two red and two blue faces. When I look from the front (front elevation) I can see one red face, two blue faces and one green face.

How might Sinitta have arranged the cubes?
What might her model look like?