

## Level 5/6 Homework Term 3 Week 9 2017

Assigned: Friday 8<sup>th</sup> September 2017

Due: Thursday 14<sup>th</sup> September 2017

### Reading

**Home reading: The Premiers Reading Challenge is now finished but your nightly reading expectations continue!**

You should be reading a 'just right' book you have chosen for 20 minutes each night. Keep your book in your bag so that you can read it when you get time in class, or have another book at school to read. Remember to keep a record of the books you have been reading this year in the back of your homework book.

### Volume

In Applied Maths sessions we have been learning how to calculate the volume of simple prisms using cubic units. Using the formula **L x W x H** (Length x Width x Height) calculate the volume of the prisms on the attached sheet.

Handy Hint: For the more challenging irregular shapes you will need to break them into more manageable regular prisms and then add their totals together for the answer.

Don't forget to label your answers with the correct unit of measurement (cubic centimetres or cm<sup>3</sup>).

### Problem Solving

1. You have a packet of **48** cookies. How many different ways can you share them equally? (Think multiplicatively in 'groups of')
2. There are 17 animals in Farmer McDonalds yard. Some are pigs and some are chickens. There are 48 legs in total. How many pigs and how many chickens are in Farmer McDonalds yard?

**Record your thinking / working out in your Homework book.** 😊

### Information Report. Volcanoes or Earthquakes

You have been busily researching volcanoes or earthquakes in preparation for your final project. Homework time this week provides you with an opportunity to work on **additional research**. You also need to complete a plan (pro-forma provided) of how you want to layout your final presentation i.e.: poster, pamphlet, PowerPoint, booklet.

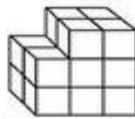
If you have chosen to present your learning with a display such as a model or diorama you will need to complete a plan for this also. Use your time at home as an opportunity to collect resources (shoe boxes, clay, tin foil, papier mache etc.) and begin work on its construction.

Remember you still have plenty of class time to complete the main parts of the project. 😊

## Volume Cubes

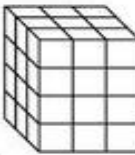
Count the cubes and write the volume of each shape. The first one has been done for you as an example.

a.



16 cubic units

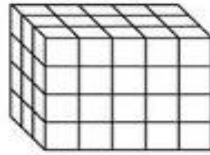
b.



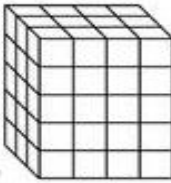
c.



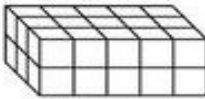
d.



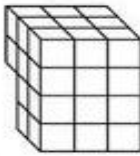
e.



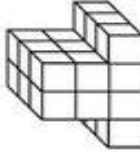
f.



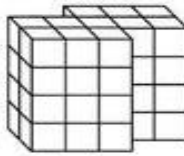
g.



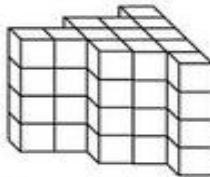
h.



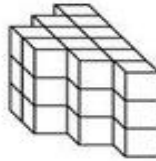
i.



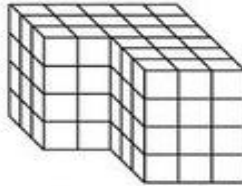
j.



k.



l.

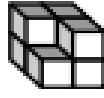


## Volume Cubes

Volume is the measure of space inside a solid object, such as a cube or rectangular prism. Volume is measured in cubic units.



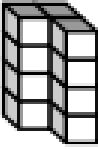
= 1 cubic cm or  $1 \text{ cm}^3$



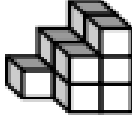
=  $7 \text{ cm}^3$

Find the volume of each shape. Use cubic centimeters ( $\text{cm}^3$ ) for your units.

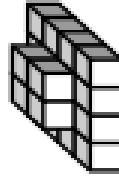
a.



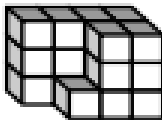
b.



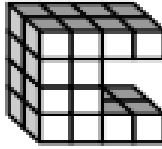
c.



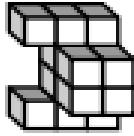
d.



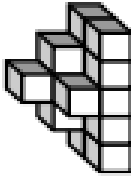
e.



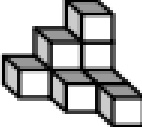
f.



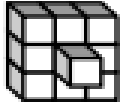
g.



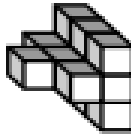
h.



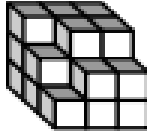
i.



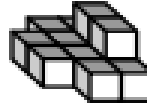
j.



k.



l.



# MY PROJECT PLAN

A large, empty rectangular box with a thin black border, intended for writing the project plan.