

Maths Work 6th Class
May 25th -28th

We have covered a lot in maths over the past two weeks, so we have reduced it a little this week to give you a chance to revise if you need it. A lot of what you do this week is revision from 5th class and what you learned in weight last week can be applied here. Also this week is only a 4day week ☺

By the end of the week you should be able to do the following:

Tick them off as you go....

Chapter 38 Capacity Mathemagic

- Can I change ml to litres and back again.
- Do I know how to find fractions and decimals of a litre (pg. 160 mathemagic)
- Can I add, subtract, multiple and divide litres and millilitres . (bring to the same name before +-x/.)
- Can I find the volume of a cuboid (L X W X H) (pg. 161, 162 mathemagic)
- Can I complete problems involving capacity.

Monday -Tuesday Capacity, chapter 38 in Mathemagic.

New Wave Mental Maths- week 32 Monday, Tuesday and Wednesday. Correct last week's work if you haven't already done so and upload a picture of the corrected work to assignments (New Wave Mental Maths week 31 completed and corrected). The answers to week 31 will be in the maths channel (that is in the list under General, Class news etc. click on maths and scroll up through the posts.)

Capacity

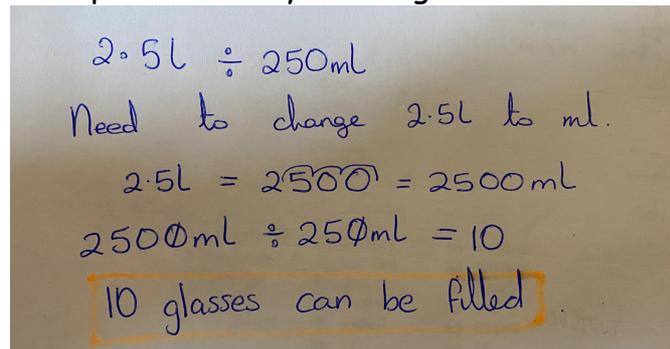
1000ml=1l There are 1000ml in a litre.

To change from ml to litres divide by 1000 (move decimal point 3 places to the left, number gets smaller)

To go from litres to ml multiply by 1000 (move decimal point 3 spaces to the right, number gets bigger)

Before adding, subtracting, multiplying or dividing ml and litres you need to bring them to the same name.

Example: How many 250ml glasses can be filled from a 2.5l bottle.



Remember

- To find a fraction of a number you divide by the bottom and multiply by the top. (See question 2 page 160)
- To find a decimal of a number multiply by the decimal.

You should know the following off by heart:

$$500\text{ml} = \frac{1}{2} \text{ l}$$

$$250\text{ml} = \frac{1}{4} \text{ l}$$

$$750\text{ml} = \frac{3}{4} \text{ l}$$

$$100\text{ml} = \frac{1}{10} \text{ l}$$

$$200\text{ml} = \frac{1}{5} \text{ l etc.}$$

Look at the following for writing ml as fractions of a litre:

Put the ml over 1000 and cancel down, you can use your calculator to do this too.

Write millilitres as litres, fractions and decimal fractions of a litre.

Examples

(i) Write millilitres as fractions of a litre.

$$125\text{ml} \Rightarrow \frac{125}{1000} \text{ l} = \frac{1}{8} \text{ l}$$

$$43\text{ml} \Rightarrow \frac{43}{1000} \text{ l}$$

$$7\text{ml} \Rightarrow \frac{7}{1000} \text{ l}$$

(ii) Write millilitres as litres using decimals.

$$125\text{ml} \Rightarrow \frac{125}{1000} \text{ l} = 0.125\text{l}$$

$$43\text{ml} \Rightarrow \frac{43}{1000} \text{ l} = 0.043\text{l}$$

$$7\text{ml} \Rightarrow \frac{7}{1000} \text{ l} = 0.007\text{l}$$

Volume of a cuboid- Length X Width X Height

Remember $1\text{cm}^3 = 1 \text{ ml}$

Watch [tutorial 101](#) to help explain volume.

Look at page 162 of the book and see do you understand the questions.

Work to upload for Monday-Tuesday: Mathemagic pg. 160 Q1 a to f, Q2 a to f, Q3 a to f, Q4 a to f, Q5 a to f, Q6 a to f. pg. 162 Q 2.

Please number and check all questions before uploading, the answers are in the maths channel. Feel free to do extra if you need the practice.

Wednesday-Thursday Capacity, chapter 38 in Mathemagic

New Wave Mental Maths- week 32 Thursday and Friday review. Please complete the quiz under assignments on Teams for the Friday review quiz week 32. Again only type what you have written in the book, if the answer is named in the book there is no need for you to name the answer in the quiz.

Capacity problems:

Please complete the following problems from Figure it Out on capacity. When you have finished correct the problems using the answer page in the maths channel. I have written out the problems and highlighted the answers. Mark in where you went wrong, use a different colour pen if possible. Upload a picture of your completed, corrected work under assignments on Teams. **Remember to show all your rough work and highlight your answers.** You can use your calculators.

If you are finding the problems hard, try your best. Write down what you can, remember in secondary school it's not about getting the right answer it is about the method used to solve the problem. Do all the easy problems first and come back to the tricky ones. Look at how I worked out the problems in the answer sheet and see does that help. You may need a little help from someone at home if available. Use your calculator!!

Figure it Out 6 page 80.

Written Problems

1.  A container can hold 4.385 litres.
What is the total capacity of 7 such containers? _____
2.  The total capacity of 6 saucepans is 20.568l.
What is the average capacity of a saucepan? _____
3.  250ml of salad dressing costs €1.29.
How much should 2.25l of the salad dressing cost? _____
4.  Apple juice costs 95c per 400ml.
How much should 2.8 litres of apple juice cost? _____
5.  350ml of fruit juice costs €0.89.
How much should 2.1 litres of fruit juice cost? _____
6.  Cooking oil costs €2.68 per litre.
How much should $3\frac{3}{4}$ litres of cooking oil cost? _____
7.  Cola costs 78c per 300ml.
What change had I from €5
when I bought 1.8 litres of cola? _____
8.  Varnish costs €3.85 per 500ml.
What had I left from €50
when I bought 3.5l of varnish? _____
9. How much will I save by buying a 2 litre container
of fabric softener for €3.65
instead of eight 250ml bottles costing 69c each? _____
10.  Vicky bought a $2\frac{1}{2}$ litre bottle of orange for €2.49.
She could have bought five 500ml bottles of orange at 75c each.
How much did she save by buying the larger bottle? _____
11.  Cream costs €1.52 per 500ml.
How much should 4.25 litres of cream cost? _____
12.  Shampoo costs €1.89 per 450ml.
What change had a hairdresser from €20
when she bought 3.6 litres of shampoo? _____