

Tuesday 31st March 2020

Hello Year 6. Another Tuesday for us. Thank you for your continued contact through email - we really do enjoy hearing from you. Yesterday I set the following problems, see below for the solutions.

1 On a bookcase

- $\frac{5}{8}$ of the books are fiction books.
- The rest are non-fiction.
- There are 72 non-fiction books.

How many books are fiction?



If $\frac{5}{8}$ of the books are fiction then $\frac{3}{8}$ of the books are non-fiction.

So, $\frac{3}{8}$ are 72.

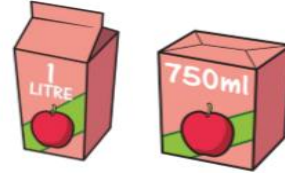
If we divide the 72 by 3 then we will find the value of $\frac{1}{8}$. $72 \div 3 = 24$

$\frac{1}{8}$ of the books is 24.

So we multiply 24 by 5 to find $\frac{5}{8}$

$$5 \times 24 = 120$$

2 Amir has two cartons of apple juice.



He shares all the juice equally between these glasses.



How much apple juice does he pour into each glass?

$$1 \text{ litre} = 1000\text{ml}$$

$$1000\text{ml} + 750\text{ml} = 1750 \text{ ml}$$

$$1750\text{ml} \div 5 \text{ (glasses)} = 350\text{ml}$$

Each glass holds 350ml.

Task 1 - Spelling

It is really important to keep spelling patterns and rules fresh in our mind. Copy each spelling 5 times to ensure you can spell them. Can someone in your family test you on your spellings? If not can you try and spell them from memory. How many did you get right?

These are all words that can be both a noun and a verb.

protest challenge damage broadcast benefit charge
function influence interest object

Now have a go at this. Using the words from the list above can you find the correct word that would complete the sentence.

Can you think of the word that could be used as a verb and a noun in these sentences from the list above? Which sentence is which? Which sentence used the word as a noun? Which sentence uses the word as a verb? Copy the sentences into your blue books.

1.

I have a very special _____ in science and would love to be a chemist when I get older.

Watching football doesn't _____ me at all; I much prefer to watch rugby.

2.

The static _____ caused Jamie to get a nasty shock when he touched the metal handrail.

The determined troops began to _____ towards enemy territory.

3.

The whole of the restaurant was closed for a private _____.

The over-tired student doctor could barely _____ on only three hours sleep.

4.

The magician tried his best to _____ the man to choose the special card in the pack.

My mum says that my new best friend is a bad _____ on my behaviour.

5.

The local community were all going to _____ to the village post office being closed down.

The children were asked to guess the mystery _____ inside the strange box.

Task 2 Maths.

I would like you to have a go at these selection of arithmetic questions to keep your mind sharp. See how you get on - how many will you score. Answers available tomorrow.

1. $4345 + 8903 =$

2. $70,000 - 45 =$

3. $7 - 3.12 =$

4. $27 \times 46 =$

5. $1.35 \times 8 =$

6. 30% of 350 =

7. $4056 \div 13 =$

8. $48 - 20 \times 2$

9. $1226 \times 47 =$

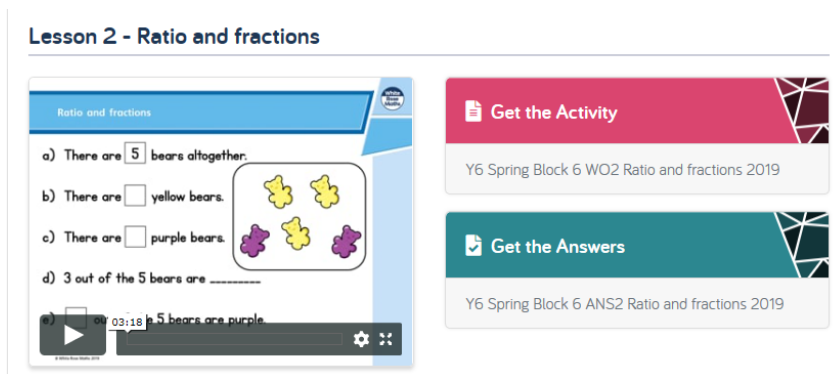
10. _____ $\times 67.8 = 67,800$

11. 4% of 520

12. $700 \times 60 =$

Task 3 – Maths.

We would like you to use the White Rose lesson focus again today. Use the link to access the site: <https://whiterosemaths.com/homelearning/year-6/> Scroll down to **Lesson 2 – Ratio and Fractions**. Watch the video and then have a go at the worksheet provided. If you can print it then great! If not, just write your answers, notes and jottings in your book.



Website looks like this 😊

Task 4. Science.

Use the online resource to experiment with different circuit diagrams to see if you can make the components work.

http://www.cleo.net.uk/consultants_resources/science/circuitWorld/circuitworld.html

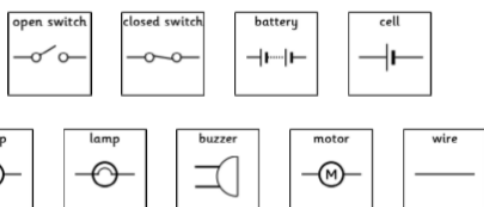
What happens when you add more cells? What happens when you add more bulbs? What is a resistor and how does it affect the circuit when you include one.

**** PLEASE NOTE** when you have placed a component on the grid you will need to click on it to rotate so that it is positioned correctly in the diagram. ******

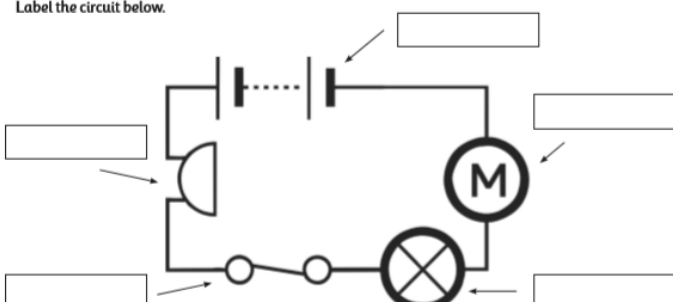
You could always email us screen shots to show us how you got on!

Electric Circuits

Electricity flows in a circuit from the negative pole of a battery to its positive pole. The flow of electricity creates an electric current. There is a symbol to represent each component in an electrical circuit.



Label the circuit below.



Have a go at labelling this diagram in your books.

Copy and complete the following sentence so it is correct. You need to fill in the gaps with the correct scientific vocabulary.

The electricity leaves the _____ and passes through the _____. It then travels through the _____, next travels through the _____ and finally through the _____ before returning to the battery.