

WALT problem solve with multiplication and division.

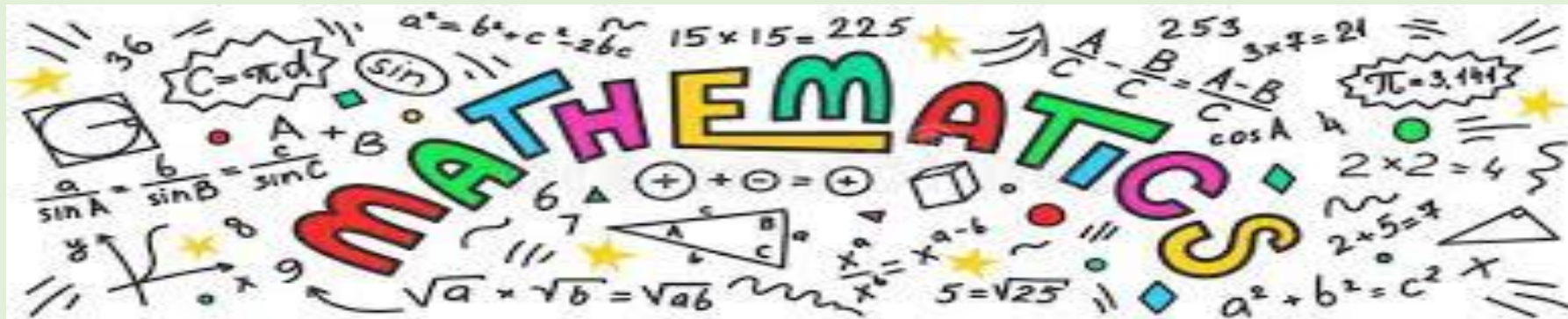
WILF:

Read the question carefully and decide which function to use.

Use long multiplication method if needed.

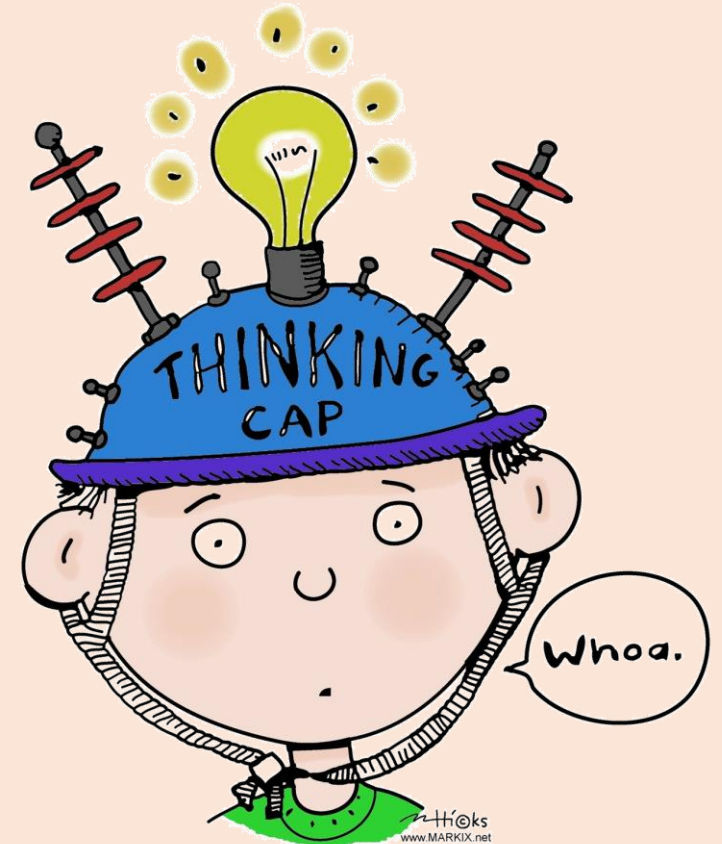
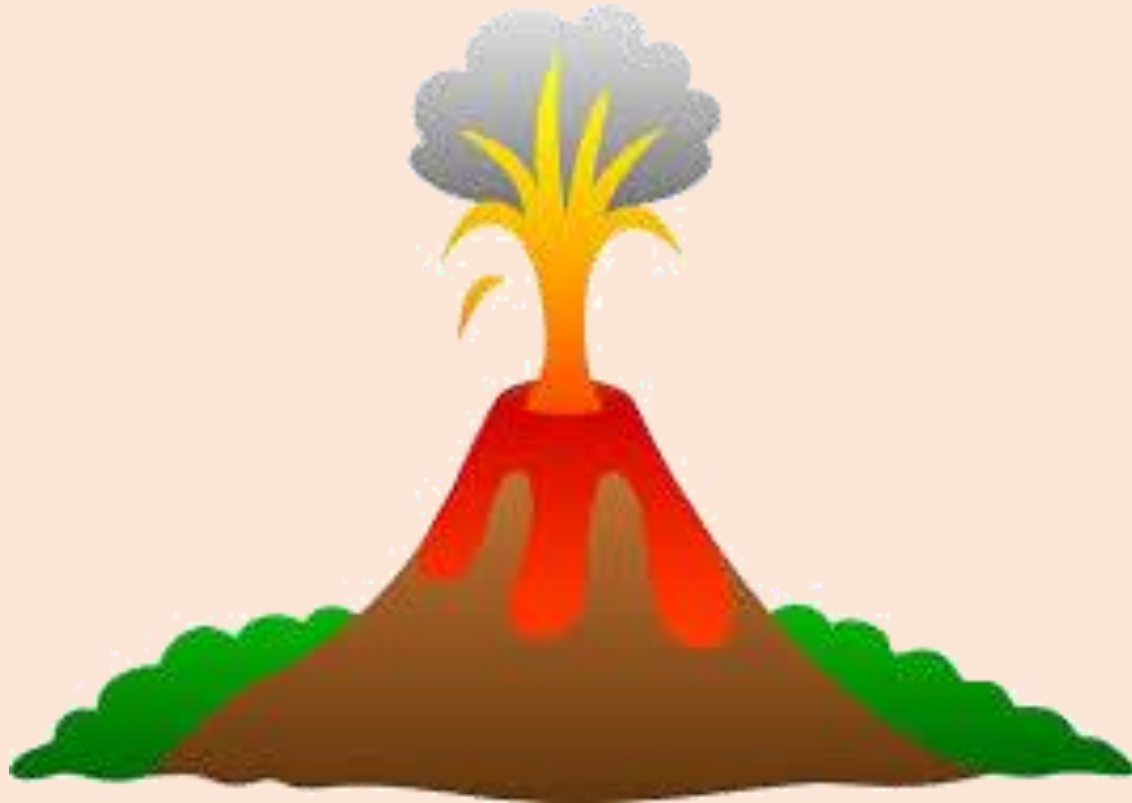
Use short division method if needed

Use your times tables to help you.



Today we will be applying our multiplication and division skills to planning a Volcanic Expedition!

But first, let's recap how...



Like the rest of this week, you'll be working with word problems, so read carefully and underline the key words.

You are likely to come across these:

multiplication



- lots of
- times
- multiply
- groups of
- product
- multiplied by
- multiple of
- repeated addition
- array

What is... lots of...?

What is the product of... and... ?

What is... times... ?

What is... group of... ?

What is... multiplied by... ?

division



- divide
- divided by
- divided into
- share
- share equally
- equal groups of

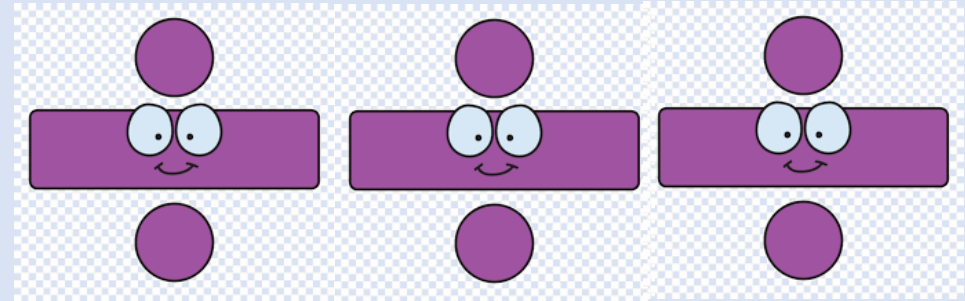
What is... divided by...?

What is... shared by...?

How many groups of... are in...?

Short division is the method we use to divide by two or more digits by something.

Click on the image to recap how in a video.
Prefer reading? See below.



- 1) Look at the first number (3) and see how many times the divisor goes into it. 7 doesn't go into 3, so we look at the next number with it instead.
- 2) 7 goes into 35, 5 times. So, we write that 5 above the 5, because that's the last digit of the combined number we've looked at.
- 3) Look at the next digit. How many times does 7 go into 9? It goes in once, so we write 1 above the 9. We have 2 left over, and there is no number on the left to carry it to, so it becomes a remainder.

$$\begin{array}{r} 5 \quad 1 \quad r2 \\ 7 \overline{) 359} \end{array}$$

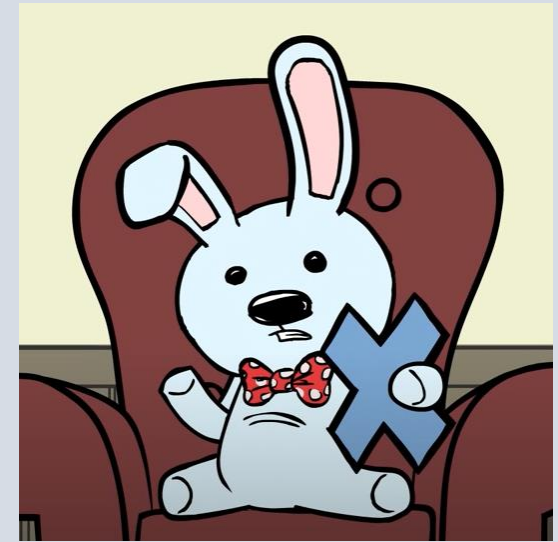
Divisor
(the number we're dividing by)

Dividend (what is being divided)

Long Multiplication:

Click on the image for a video explanation song.

Prefer reading? See below:



1) Line up your numbers using place value, with the number you are multiplying on the top, and the number you're multiplying it by underneath.

2) Write out the two separate calculations so you don't miss anything.

3) Multiply the ones digit by your top number.

4) Put 0 as a placeholder for your tens number, then multiply your top number by the tens digit.

5) Continue as needed - e.g. two 0's as place holders for hundreds.

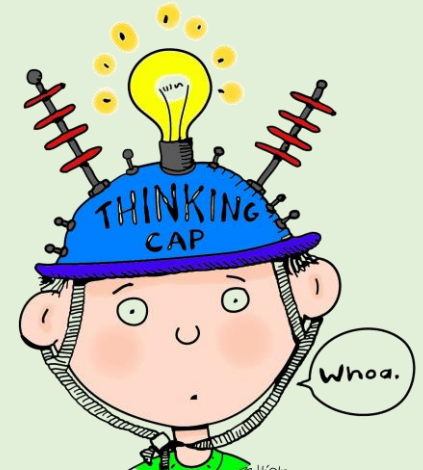
6) Add your numbers together.

$$\begin{array}{r} \text{X} \quad 120 \\ 24 \\ \hline (120 \times 4) \quad 480 \\ (120 \times 20) \quad 2400 + \\ \hline 2880 \end{array}$$

So, if I had a question that said:

Jeremy bakes 245 cookies in one batch, and has been asked to make 24 batches for a summer party. How many cookies will he have altogether?

We would calculate 245×24 to get our answer (after carefully reading and underlining the important parts).



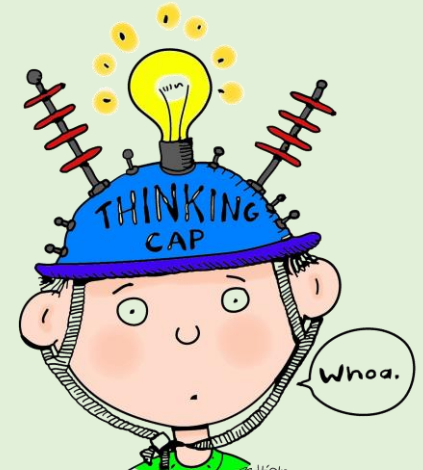
If the question was:

Miss Lester ordered 245 cookies and shared them between the 6 people in her house. How many cookies will each person get?

We would underline the key parts to find our calculation, then calculate:

$$245 \div 6 =$$

$$\begin{array}{r} 6 \overline{) 245} \end{array}$$



Now have a go at the activity!

Complete as much as you can today, then finish the rest tomorrow. Once you have finished, explain why you have solved them the way you have to either a teddy or a parent.

