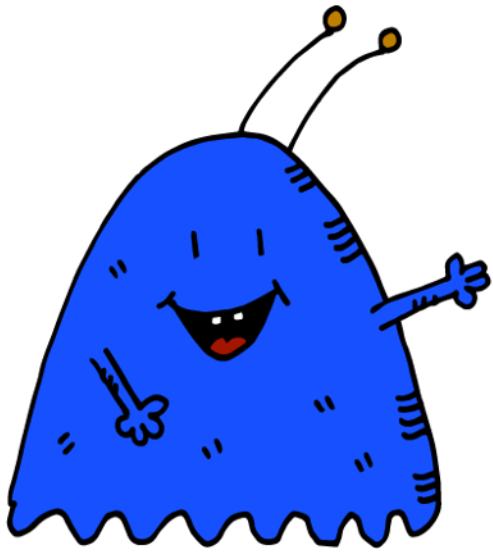
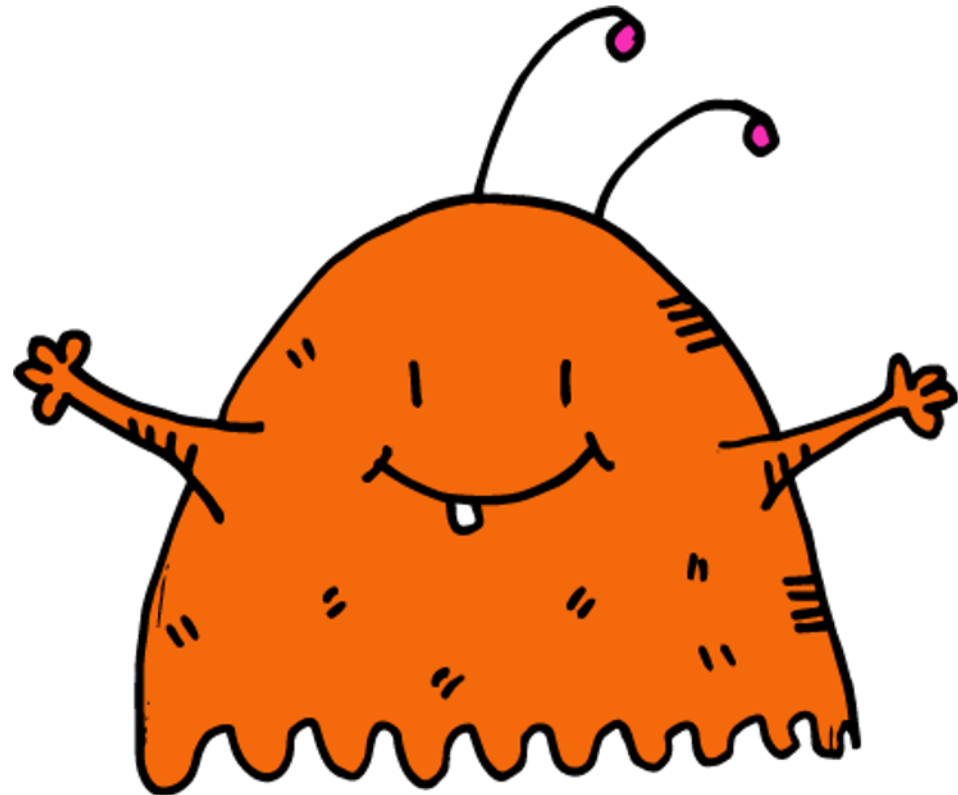


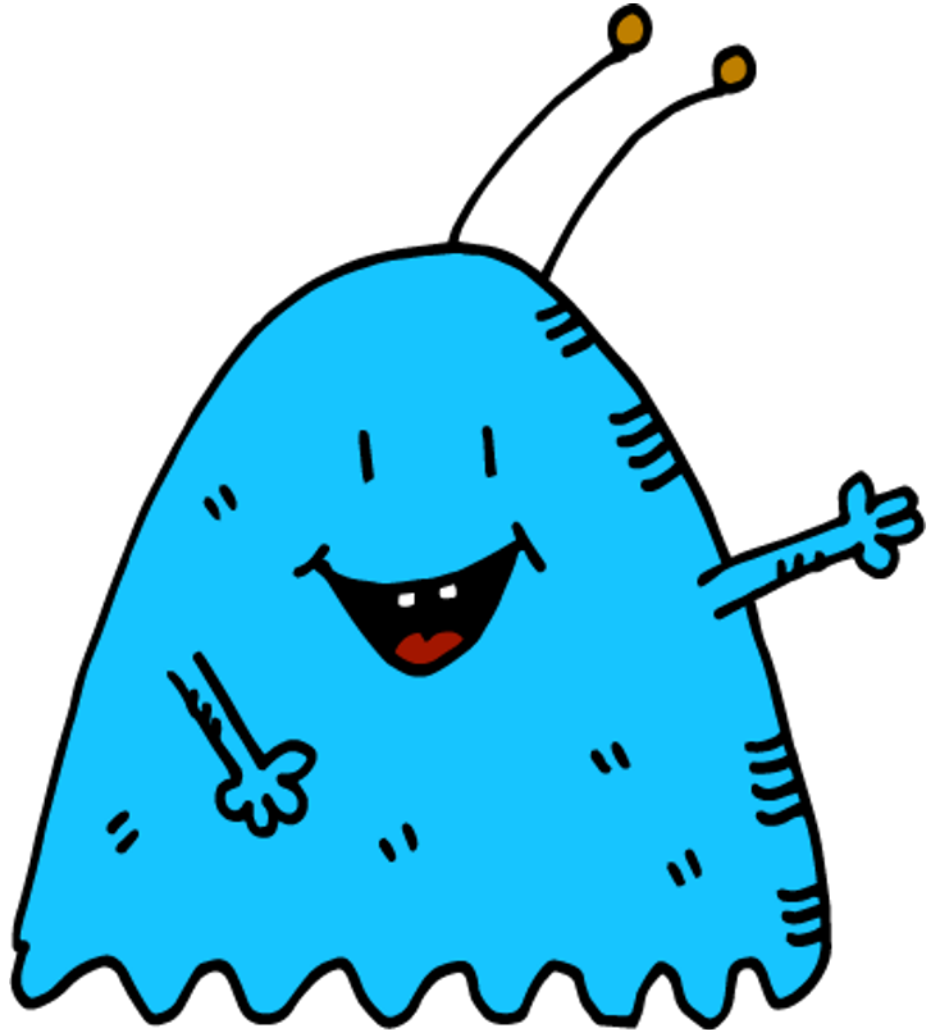
Multiples



We are going to
Study Multiples



BEFORE WE START -



**WHAT IS A
'MULTIPLE'?**

It is okay if you can't remember!

Maybe you have heard the word before but not quite sure?

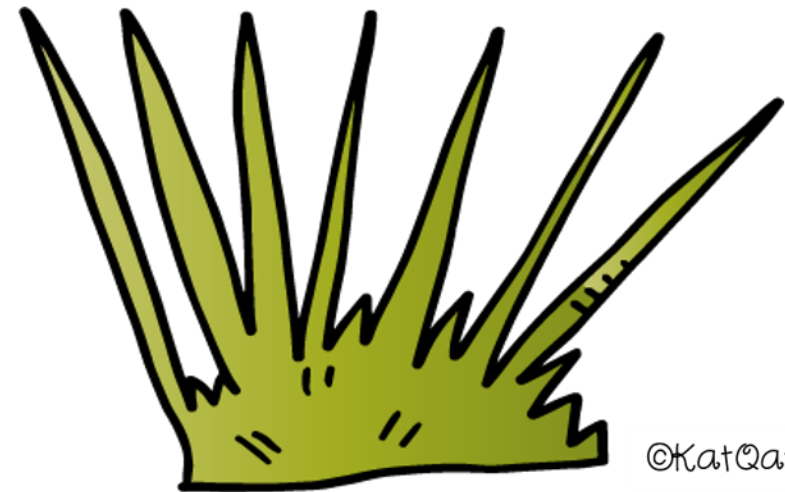
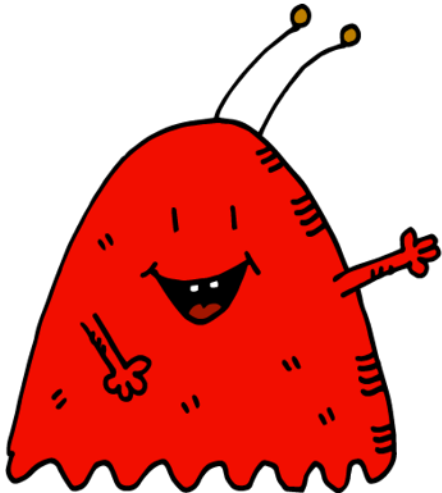
Maybe it sounds familiar but not really able to explain it?

Or maybe it is the first time you have heard this word!

By the end of this lesson you will know a lot about multiples.

What exactly is a multiple?

It is simply a number - but it has some special features.



What exactly is a multiple?

A

A multiple is a number in the multiplication tables.

B

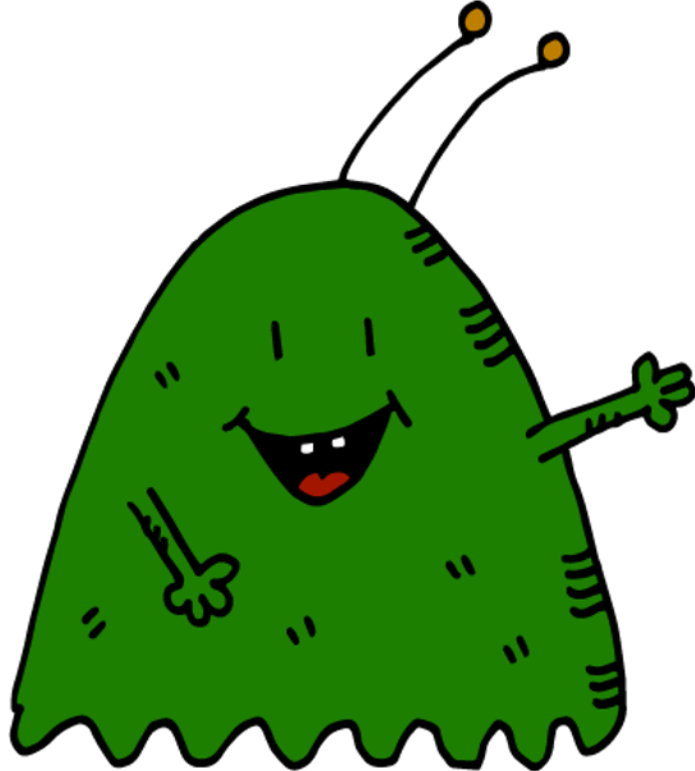
X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

The numbers on row (A) are timed or multiplied by the numbers on column (B).

When you join two of these numbers together by multiplying your answer is a multiple!

**MULTIPLES
CAN GO ON
FOREVER....**

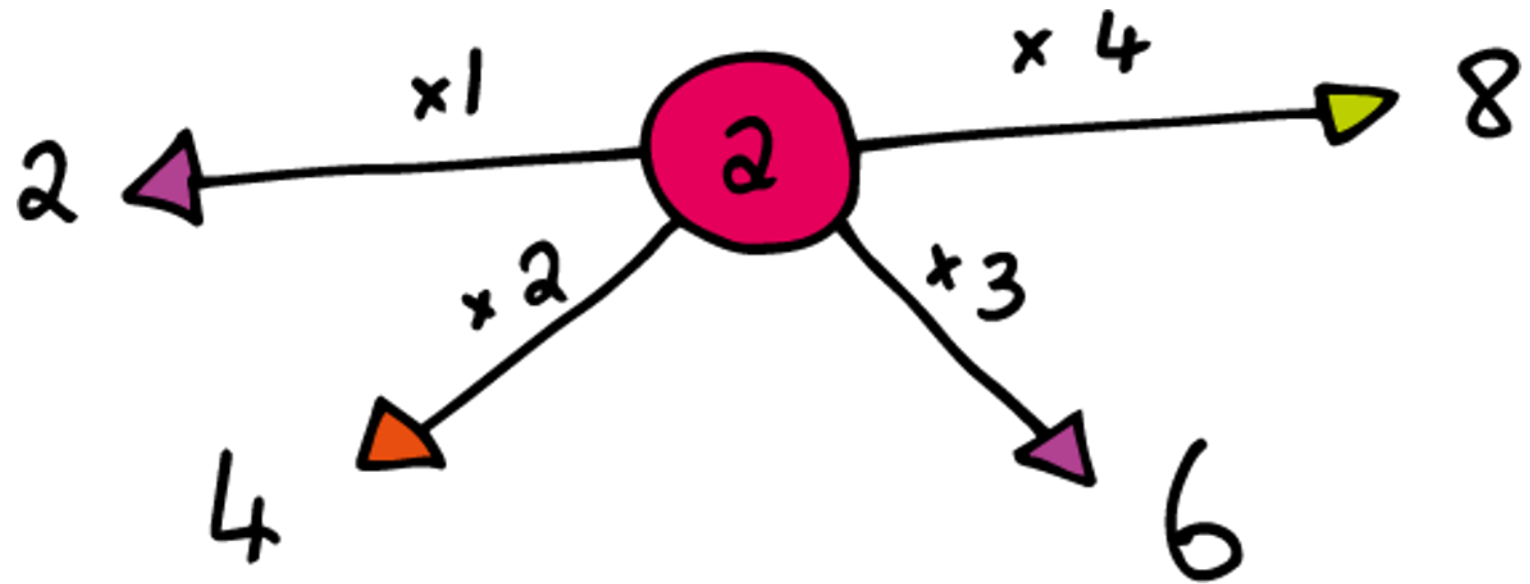
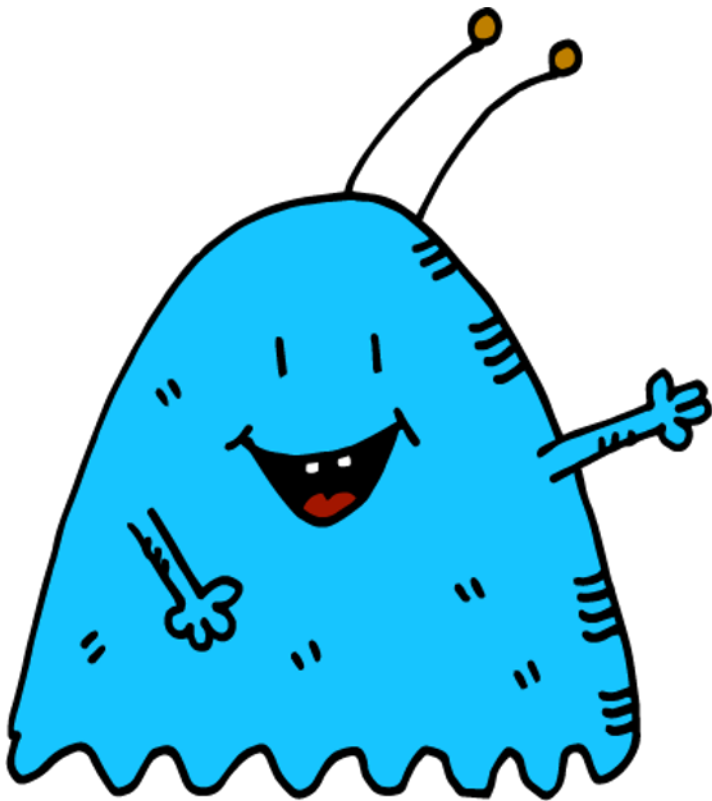
Let's start with a question that will help you understand the concept. It may look easy, but what we are looking for is understanding of what a multiple is.



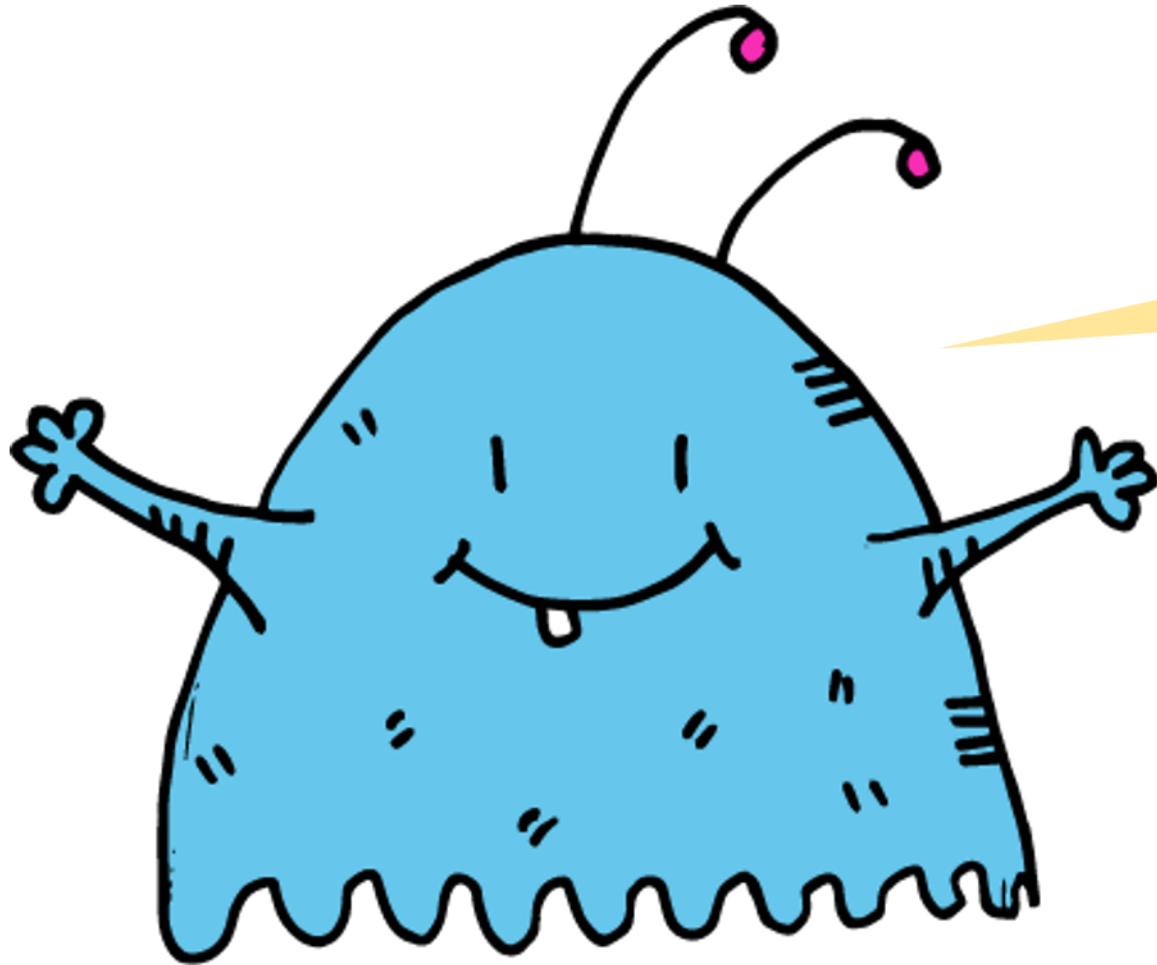
Can you say the multiples of 2?

An easy way to find the multiples of 2 is to say your two times tables.

You can show this in many ways. Here is one suggestion:

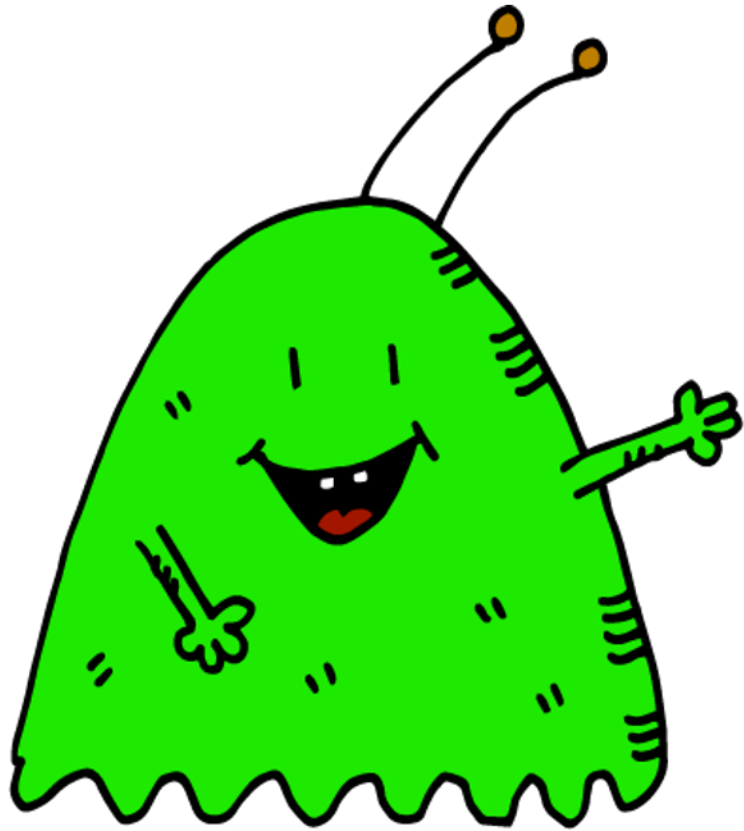


The multiples of 2 are: 2, 4, 6, 8, 10, 12, 14... Keep adding two and you can go on forever!



I haven't got time for that!

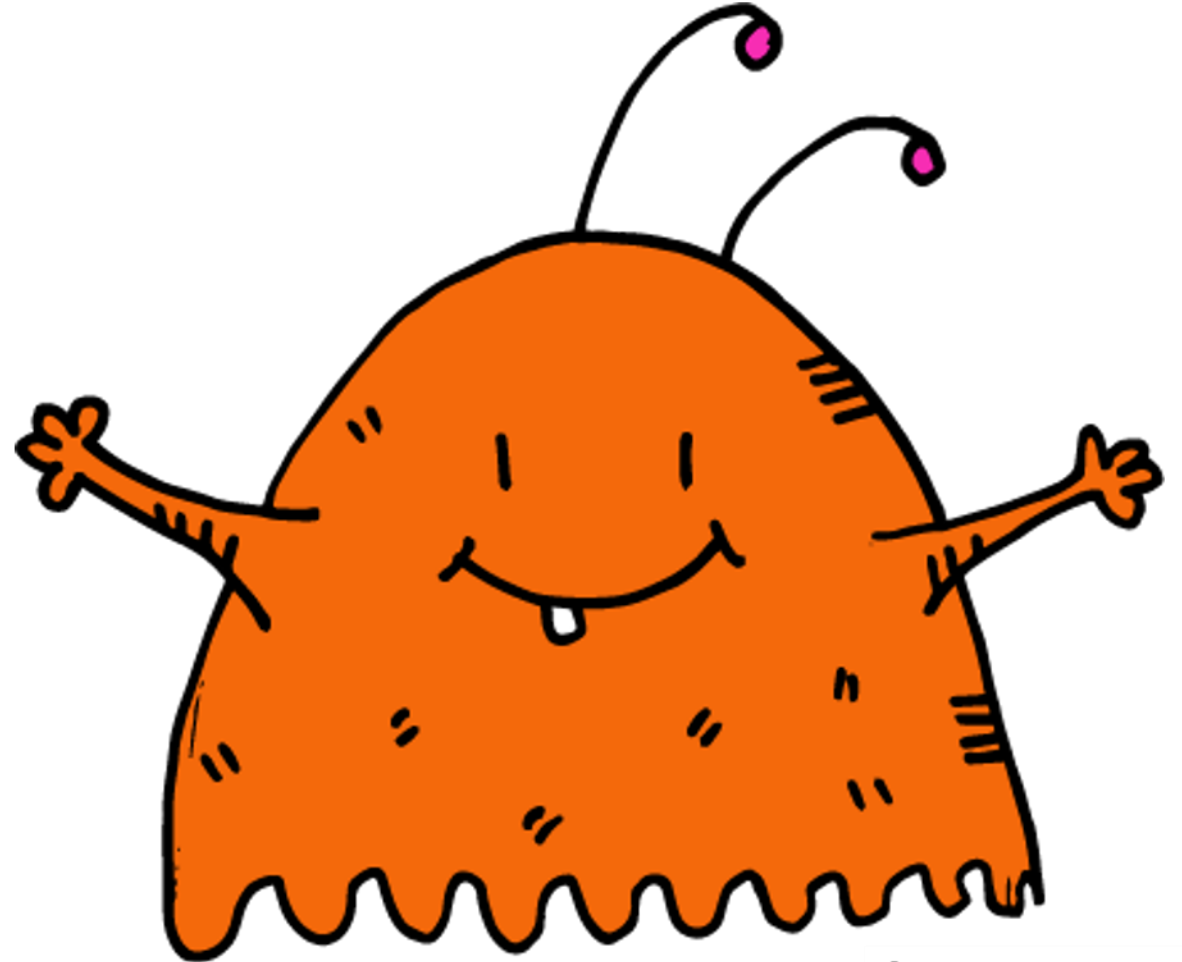
You can double the multiples of some of the two times tables to give you multiples of 4.



2 , 4 , 6 , 8 , 10 , 12 ,

It's a very good idea to learn
your times tables.

This will help you work
out what a multiple is
for a given number
very quickly.



ARE YOU READY FOR A CHALLENGE?

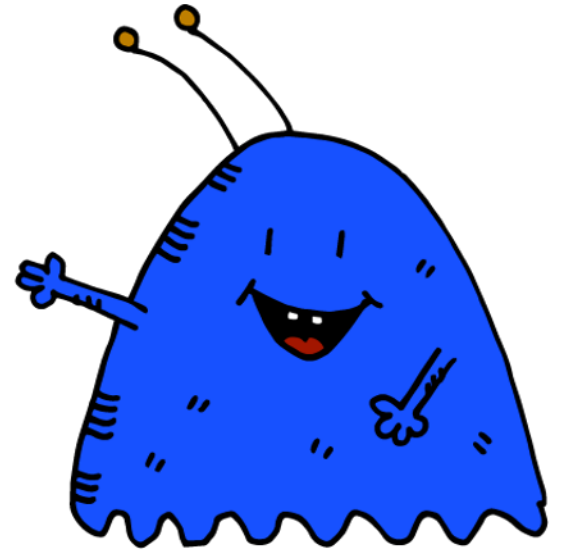
What are the first five multiples of:

2

3

5

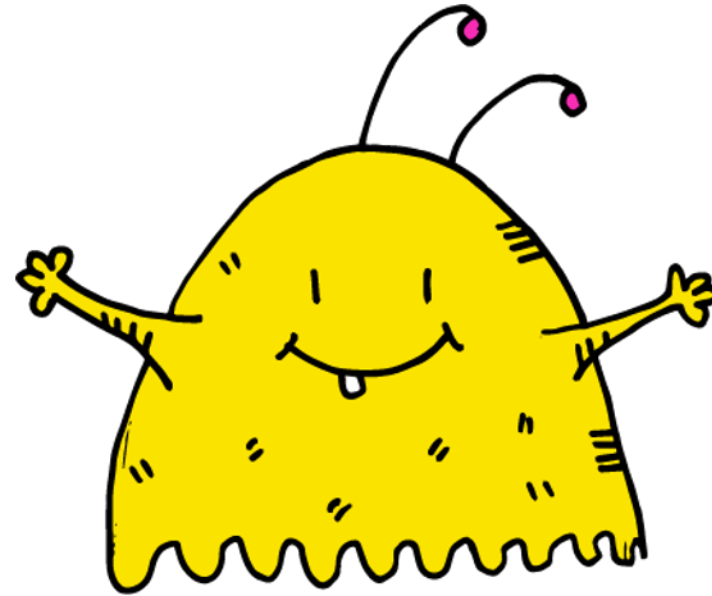
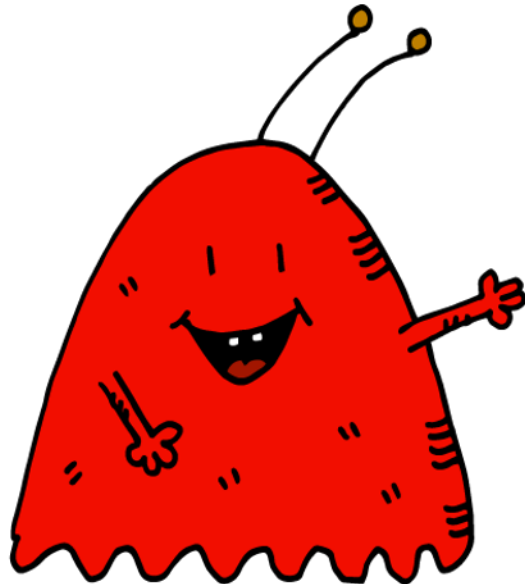
10



Moving on! Let's try something a little different!

Is 12 a multiple of 4?

How can you work this out?



Is 50 a multiple of 5?

How can you prove your answer?

Explaining how you know and what you did is really important.

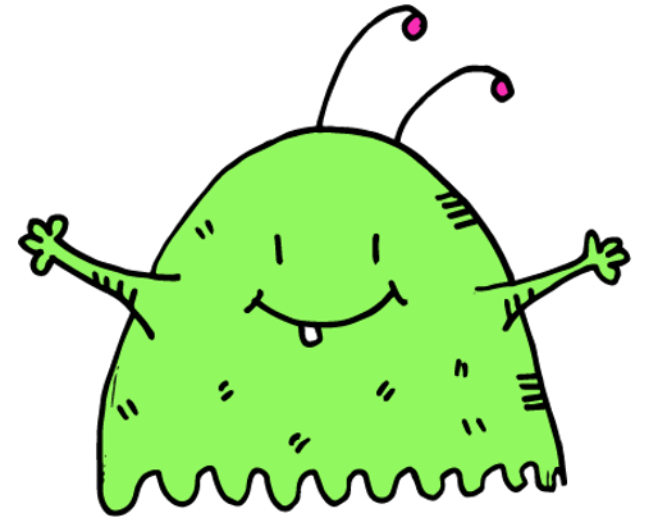
The best way to remember is to teach it to another person!

Suggestion: You can show your math's partner using any way that makes sense with you.

Check back with an adult.

What kind of technical language are you using?

Is your explanation fluent?

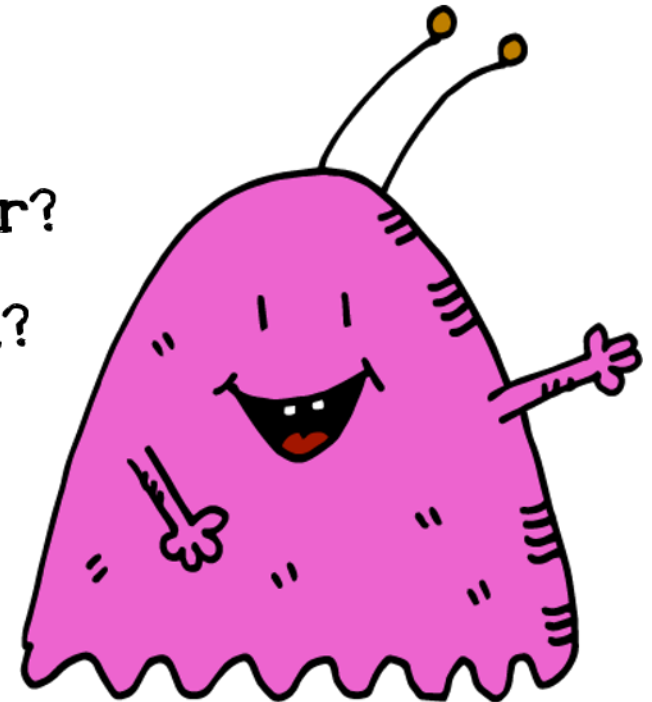


ANOTHER CHALLENGE!

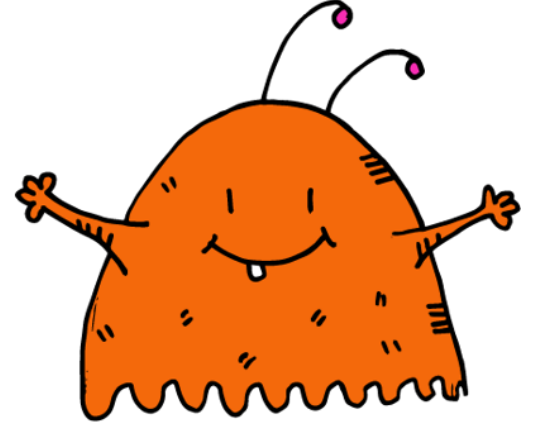
Which of these numbers in the square are multiples of 4?

	8	
2		14
	40	
13	35	20

- *What challenges are presented here?*
- *How can you find your answer?*
- *How to you plan to prove your answer?*
- *What kind of vocabulary will help you?*



ODD ONE OUT

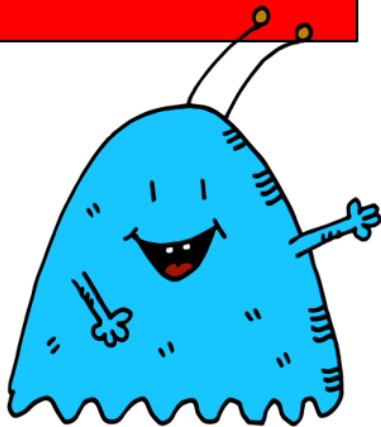


Do you remember what an 'even' number is?

Even numbers can be divided exactly by two with no remainder.
However it also includes the value '0'

0, 2, 4, 6, 8, 10.

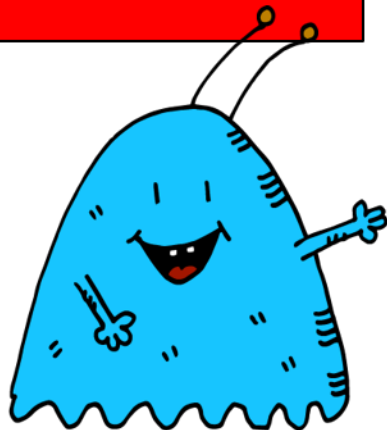
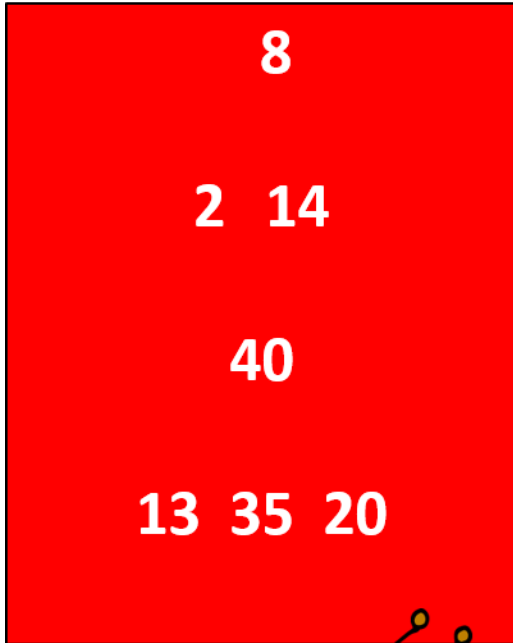
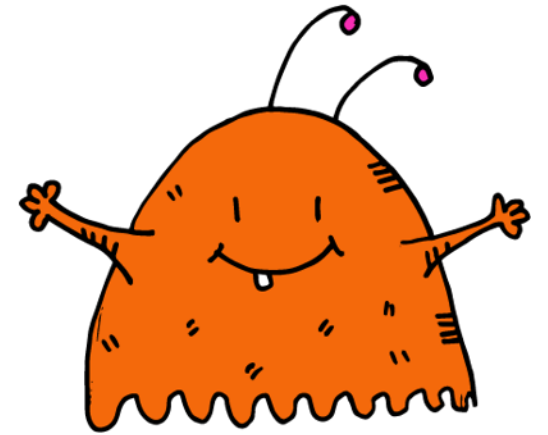
8
2 14
40
13 35 20



Odd numbers are all the other numbers (that are not even!)

such as 1, 3, 5, 7 etc.

ODD ONE OUT

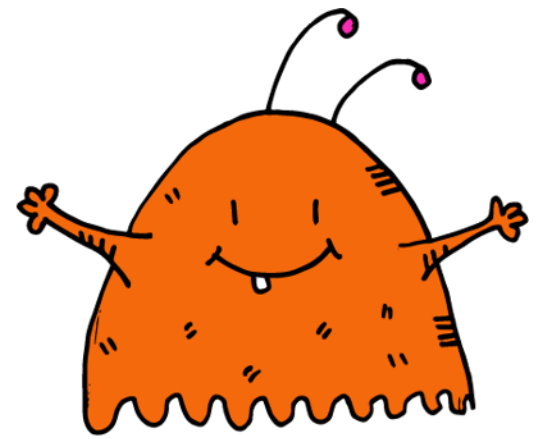


The orange creature says that:

“The multiples of even numbers are even numbers”.

Using some of the numbers in the red box, explain how the orange creature’s statement is true or false.

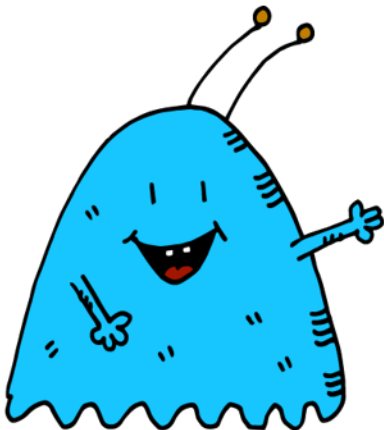
DO YOU KNOW...?



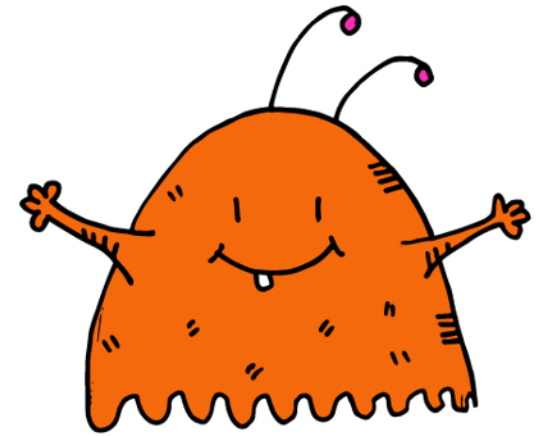
35	4	12	
8	21	16	41

Which of these numbers are not multiples of 4?

What number knowledge clues did you use?

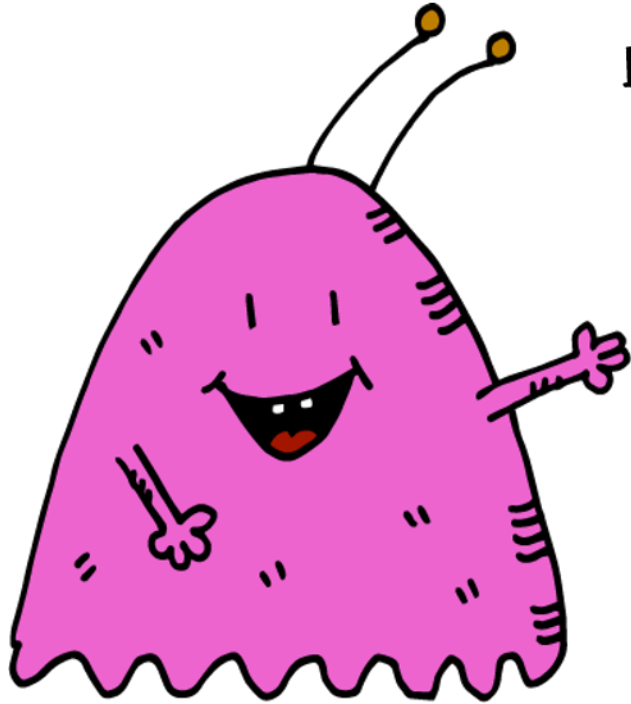


DO YOU REMEMBER?



The multiples of 4 are

Multiples ending in are





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