

Homework week Beginning April 11th

Year 5 only

Work on the 7 and 8 times tables

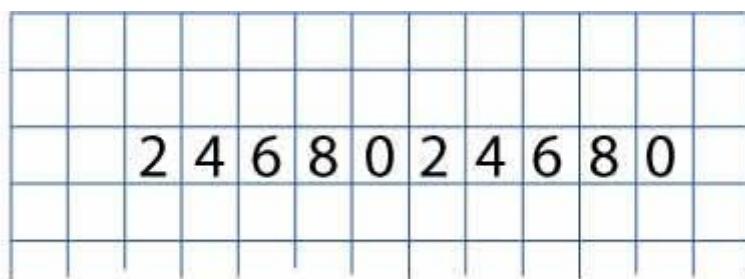
Learn Spelling Bee words.

'Tables Without Tens' printed from <http://nrich.maths.org/>

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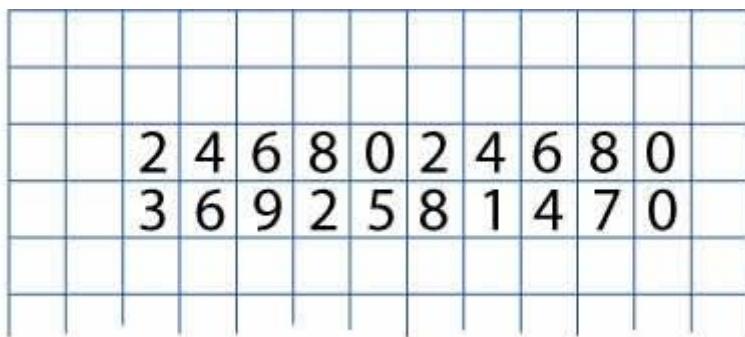
You will need a piece of squared paper for this activity. If you have none you can get a sheet [here](#).

Write the *units digits* of the numbers in the two times table from 1×2 up to 10×2 in a line.
(Leave some room at the top of the paper, and some space to the left and right.)
It should look like this:



You might be able to see some patterns in these numbers.

Now, do the same thing with the multiples of three. Remember, just write the *units digits*, this time directly underneath the line of the two times table, like this:



Continue by writing in the four and five times tables in the same way. Again, just using the units digits.

2	4	6	8	0	2	4	6	8	0
3	6	9	2	5	8	1	4	7	0
4	8	2	6	0	4	8	2	6	0
5	0	5	0	5	0	5	0	5	0

Now look at the whole array of numbers you have created.

What patterns can you find?

Try to explain why the patterns occur.

What do you notice about these four sets of numbers?

Can you predict what would happen next if we wrote in the next times table?

Well, why not add in the tables of sixes, sevens, eights, nines and finally tens?

After that, for the sake of completeness, we could put in the table of ones and zeros.

Do you have a grid that looks like this?

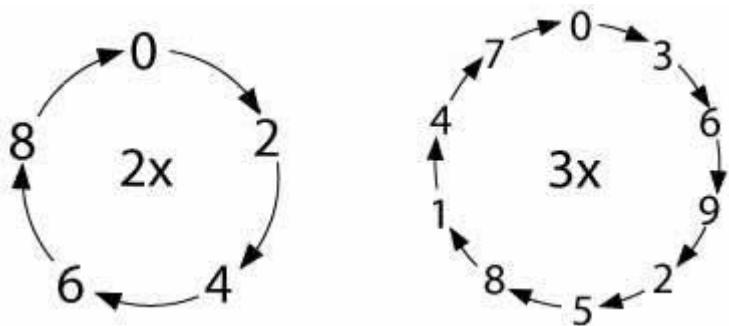
What patterns are there here?

What about repeats?

Can you predict what you will find?

How might you record the repeats that you find?

Each line could be written like this:



But you will probably find some other ways which are just as good.

You could try writing all the tables like that.

Are some tables the same or similar to others?

Does it matter which way the arrows go?

What can you discover about the pattern of repeats?

Can you predict what you will find out about 'pairs' of tables?

Change these short sentences. Make them as interesting as possible by expanding the phrases.

The dog ate its dinner.

The fly sat on the flower.

The car went quickly.

The girl ate the sausage.

The frog fell into the pond.