

# Summer Week 3 - Lesson 1

Can I multiply by 10, 100 and 1000?

# Fast Five

$7 \times 3$

$800 - 443$

Value of the underlined digits

$6\underline{7}43\underline{9}$

$56 = 7 \times ?$

$12864 + 37456$

Answers on the next slide

# Fast Five

$$7 \times 3 = 21$$

$$800 - 443 = 357$$

Value of the underlined digits

67439

$$56 = 7 \times 8$$

7000      9

$$12864 + 37456 = 50320$$

We've looked before at how to multiply by 10, 100 and 1000.

It is important to practise the method.

When we see a number multiplied by 10, 100 or 1000 column method is not the quickest way to get the answer.

The next few slides show how to use our place value to help us.

We call this method the "move it move it" method.



When we multiply by 10, 100 or 1000 we always move our number to the left. We are making our number bigger which means moving place values to the left.

Hth Tth H T O

Our question is  $23 \times 10$

Steps to success:

First – put each number in its own square.

Second – look at how many zeros are in the number you are multiplying by, in this case 1. (10 has 1 zero)

Third- this is how many places to the left you are going to move.

Fourth- fill in with zeros as placeholders.

	H	T	O
		2	3
	2	3	0

2 3 0 is the  
answer

Our question is  $983 \times 100$

Steps to success:

First – put each number in its own square.

Second – look at how many zeros are in the number you are multiplying by, in this case 2. (100 has 2 zeros)

Third- this is how many places to the left you are going to move.

Fourth- fill in with zeros as placeholders.

	Hth	Tth	H	T	O
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			9	8	3
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	9	8	3	0	0
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98300 is the answer

Our questions is  $65 \times 1000$

Steps to success:

First – put each number in its own square.

Second – look at how many zeros are in the number you are multiplying by, in this case 3. (1000 has 3 zeros)

Third- this is how many places to the left you are going to move.

Fourth- fill in with zeros as placeholders.

Hth	Tth	H	T	O
			6	5
6	5	0	0	0



Our question is  $12.4 \times 100$

Steps to success:

First – put each number in its own square. Remember your decimal needs its own space and won't move.

Second – look at how many zeros are in the number you are multiplying by, in this case 2. (100 has 2 zeros)

Third- this is how many places to the left you are going to move.

Fourth- fill in with a zero as a placeholder (not required after the decimal).

Tth	H	T	O	.	t
		1	2	.	4
1	2	4	0	.	<del>0</del>

1240 is the answer

We don't need the 0 after the decimal

$$76.2 \times 100$$

Hth	Tth	H	T	O	.	t
			7	6	.	2
	7	6	2	0	.	<del>0</del>

7620 is the  
answer

$$8.1 \times 1000$$

Hth	Tth	H	T	O	.	t
				8	.	1
	8	1	0	0	.	<del>0</del>

8100 is the  
answer

$$13.7 \times 10$$

Hth	Tth	H	T	O	.	t
			1	3	.	7
		1	3	7	.	<del>0</del>

137 is the  
answer