

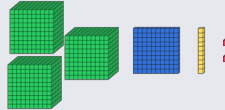
To be able to multiply 4-digit numbers by 1-digit numbers



Starter:

What's the same? What's different?

thousands	hundreds	tens	ones
●●●●		●●	●●



Explain your answer.

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Activity 1:

Use place value counters and a place value chart to calculate:

thousands	hundreds	tens	ones

	TH	H	T	O
	3	0	1	2
x				3

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Activity 2:

Write and complete the calculation represented by the place value chart below:

thousands	hundreds	tens	ones
●●●●	●●		●●●●●●
●●●●	●●		●●●●●●
●●●●	●●		●●●●●●

	TH	H	T	O
x				

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Activity 3:

Miss Singh earns £1,324 per week. How much does she earn in four weeks?

thousands	hundreds	tens	ones

	TH	H	T	O
	1	3	2	4
x				4

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Activity 4:

James says, "The answer to $2,413 \times 4$ is 816,412."

What's gone wrong?

Can you correct the calculation and get the correct answer?

	TH	H	T	O
	2	4	1	3
x				4
	8	16	4	12

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Activity 5:

Use the following clues to complete the calculation:

- From left to right, the second digit in the multiplicand is the same as the multiplier;
- The first digit is worth one less than the second digit;
- The third digit is worth one more than the second digit;
- The fourth digit is worth two more than the second digit;
- The product's ones digit is the same as the multiplier.

	TH	H	T	O
x				4

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Evaluation:



If you multiply an even 4-digit number by an odd 1-digit number, the answer is an odd number.

Is Astrobee's statement always, sometimes or never true?
Explain your answer.