

To be able to multiply 3-digit numbers by 1-digit numbers



Starter:

What's the same? What's different?

Explain your answer.

	H	T	O
		9	6
x			6

	H	T	O
		7	2
x			8

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Activity 1:

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

hundreds	tens	ones

	TH	H	T	O
		2	1	3
x				3

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Activity 2:

There are four ferries a day to Staten Island. Each ferry holds 243 people.

How many people can go to Staten Island by ferry each day?

Use a place value chart and counters chart to help you complete:

hundreds	tens	ones

	TH	H	T	O
		2	4	3
x				4

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Activity 3:

Write the calculation represented by the place value chart and counters.

Solve the calculation using the formal written method.

hundreds	tens	ones
200 200 200	40 40	30 30 30 30 30 30 30 30 30 30
200 200 200	40 40	30 30 30 30 30 30 30 30 30 30
200 200 200	40 40	30 30 30 30 30 30 30 30 30 30

	TH	H	T	O
x				

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Activity 4:

Complete the following using the formal written method.

	TH	H	T	O
		3	1	9
x				3

	TH	H	T	O
		2	7	8
x				4

	TH	H	T	O
		4	2	7
x				5

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Activity 5:

Ruth and Yasmin have both attempted to calculate 276 by 6.

Ruth					Yasmin				
	TH	H	T	O		TH	H	T	O
		2	7	6			2	7	6
x				6	x				6
		1	2	5			1	6	5
			4	2				4	2

Who has completed the calculation correctly?

What mistake has the other person made?

Explain your answer.

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Evaluation:



If you multiply a 3-digit number by a 1-digit number, the result is a 4-digit number.

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