

To be able to use area models to multiply 2-digit numbers by 2-digit numbers



Starter:

What's the same? What's different?

	TH	H	T	O
	2	3	8	4
x				4

	TH	H	T	O
	1	1	9	2
x				8

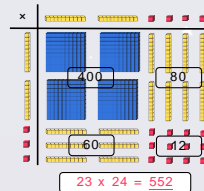
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Activity 1:

Use Yasmin's strategy to solve:

- a) 33×22
- b) 24×35
- c) 32×36



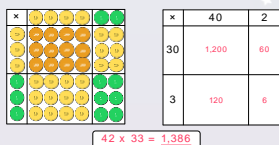
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Activity 2:

Use Ruth's strategy to solve:

- a) 43×32
- b) 53×24
- c) 43×44

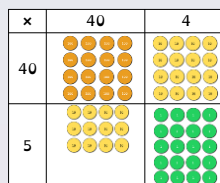


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Activity 3:

Complete Jamal's place value counter area model below, then find the total.



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Activity 4:

Farmer Sam wants to plant potatoes in her largest field and carrots in her second largest field.

Field A is 53 m long and 23 m wide; field B is 47 m long and 31 m wide.

Which field should she plant each of the vegetables in?
Explain your answer.

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Activity 5:

James says, "If I want to multiply 45×63 , I multiply 40 by 60 and 5 by 3, then add the two results together."

Do you agree?
Use mathematical equipment and sketches to support your answer.

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Evaluation:



If you multiply a 2-digit number by a 2-digit number, the result is a 4-digit number.

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