1)	Fino	d the representations that sho	ow each calculation in 3 different ways.
·	a)	15 × 14	
			^ 10 2
	b)	12 × 23	3 30 6 3 30 600 120
	c)	24 × 32	
			× 10 5 10 100 50 C
	d)	45 × 16	×
		(F	
		10 400 50 1 10 10	
		/ 1 / 1 / 2 / 3 / 4 5 5 5 5 5 5 5 5 5	
		×	
			× 1010 10.101 × 10 10.101
2)	a)	Use base ten to	Next, use place value counters to Finally, show this
•		represent 14 × 17.	show this multiplication calculation. correctly using a grid.
	b)	What is the same and what	t is different about the three representations?



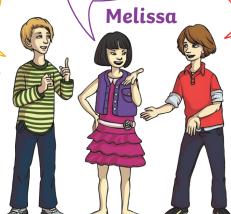
1) Melissa, Harry and Hank are calculating 24×18 . They each share their strategy for finding the product.



I will do 24 × 10 and then 24 × 8 and add these together. I will partition the numbers into 20 and 4 and 10 and 8 and use the grid method.

I will do 20 × 10 and 4 × 8 and then add this together.





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Whose method would you choose and why?	
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	_

2) Zena is practising the grid method of multiplying 2-digit numbers. Can you identify the mistakes she has made and explain what she has done wrong?

×	50	2
20	100	40
4	200	8

×	30	5	
30	900	150	
6	18	30	



1)	med leng	e children at Twinkl Academy are trying to solve the caretaker's clues to find the asurements of their rectangular school hall floor. The caretaker says that the gth of each side of the hall floor is a 2-digit number and the area of the hall floor between 350m ² and 400m ² .
	a) —	What could the measurements be? Find three possible solutions.
	b)	The caretaker adds that one of the sides has a digit sum of 5. Find three possible solution
		c) The caretaker gives a final clue. He says the other side has a digit sum of 8 and 1 exact area is 391m². What are the exact measurements of the hall?

