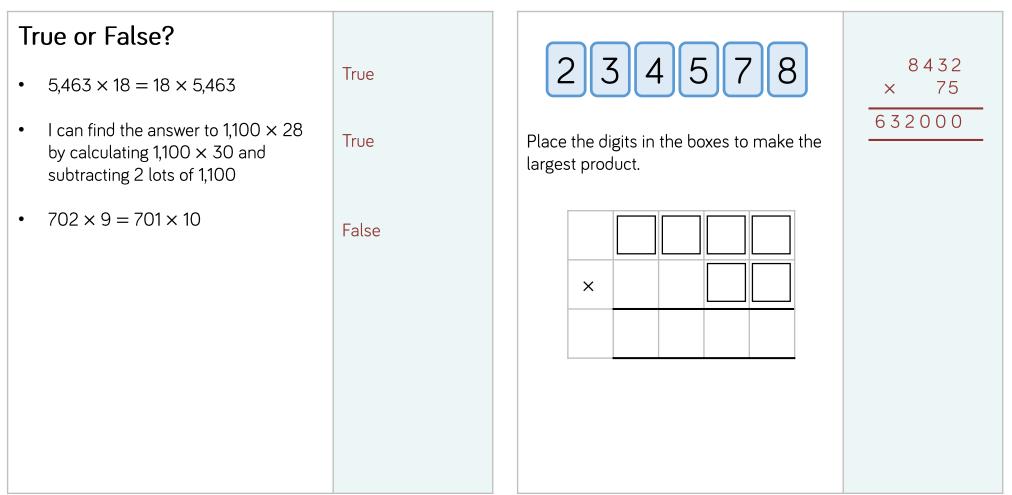




## Multiply 4-digits by 2-digits

## **Reasoning and Problem Solving**





## Multiply 3-digits by 2-digits

## **Reasoning and Problem Solving**

	$22 \times 111 = 2442$	The pattern stops at up to $28 \times 111$ because exchanges need to take place in the addition step.	Her wor		re e	exar		In his first calculation, Dexter has forgotten to							
	23 × 111 = 2553		×			9	8	7				3	2	4	use a zero when multiplying by 7 tens.
	24 × 111 = 2664						7		×				7	8	
					5	5 <sup>9</sup>	42	2			2	15	_9 3	2	It should have
	What do you think the answer to				6	6 <sup>9</sup>	4 <sup>0</sup>	9		2	12	26	8	0	been
	25 × 111 will be?			1	1 <sup>2</sup>	8	1 <sup>3</sup>	1			3	2	7	2	987×76 = 75,012
	What do you notice? Does this always work?													calculation, Dexter has not included	
	Pencils come in boxes of 64	15,840	wrong? exchanges.									-			
	A school bought 270 boxes. Rulers come in packs of 46 A school bought 720 packs. How many more rulers were ordered than pencils?		Correct each calculation.												$324 \times 8 = 2,592$ $324 \times 70 = 22,680$ The final answer should have been 25,272