

## Wednesday's Maths Sheet

**Learning Objective: Multiply 3 digit x 2 digit**

**Please complete at least 5 minutes on Times Tables Rockstars**

Watch the video before our class Zoom and complete this sheet after Wednesday's Zoom.

### Maths Talk

Why is the zero important?

What numbers are being multiplied in the first line and the second line of the calculation below?

When do we need to make an exchange?

#### 1. Practise


 Complete:

		1	3	2
×			1	4
<hr/>				
		5	2	8
	1	3	2	0
<hr/>				

Use this method to calculate:

$(132 \times 4)$      $264 \times 14$      $264 \times 28$

$(132 \times 10)$     What do you notice about your answers?

 Calculate:

$637 \times 24$

$573 \times 28$

$573 \times 82$

### Reasoning and Problem Solving

$22 \times 111 = 2442$

$23 \times 111 = 2553$

$24 \times 111 = 2664$

What do you think the answer to  $25 \times 111$  will be?

What do you notice?

Does this always work?

Here are examples of Dexter's maths work.

		9	8	7
×			7	6
<hr/>				
		5	9	2
		6	9	4
	1	2	8	3
		3	2	4
×			7	8
<hr/>				
		2	1	5
		2	2	6
	3	2	7	2

He has made a mistake in each question.

Can you spot it and explain why it's wrong?

Correct each calculation.

### Reasoning and Problem Solving Answers

2. The pattern stops at up to  $28 \times 111$  because exchanges need to take place in the addition step.

3. In his first calculation, Dexter has forgotten to use a zero when multiplying by 7 tens.

It should have been

$$987 \times 76 = 75,012$$

In the second calculation, Dexter has not included his final exchanges.

$$324 \times 8 = 2,592$$

$$324 \times 70 = 22,680$$

The final answer should have been 25,272