

Multiply 4-digits by 2-digits

1 Complete the multiplication.

			1	2	3	4	
	×				2	1	
			1	2	3	4	
		2	4	6	8	0	
		<u>2</u>	<u>5</u>	<u>9</u>	<u>1</u>	<u>4</u>	

(1,234 ×)
 (1,234 ×)

2 Tommy is calculating $1,234 \times 26$

a) Complete his working out.

			1	2	3	4	
	×				2	6	
			7	4	0	4	
		2	4	6	8	0	
		<u>3</u>	<u>2</u>	<u>0</u>	<u>8</u>	<u>4</u>	

(×)
 (×)

b) Fill in the grid to check Tommy's working is accurate. You may use place value counters to help.

×	1,000	200	30	4
20	<input type="text" value="20,000"/>	<input type="text" value="4,000"/>	<input type="text" value="600"/>	<input type="text" value="80"/>
6	<input type="text" value="6,000"/>	<input type="text" value="1,200"/>	<input type="text" value="180"/>	<input type="text" value="24"/>

3 Rosie is calculating $2,541 \times 42$. Here is Rosie's working.

			2	5	4	1	
	×				4	2	
			4	0	8	2	(2,541 × 2)
		8	0	6	4		(2,541 × 40)
		<u>1</u>	<u>2</u>	<u>1</u>	<u>4</u>	<u>6</u>	

a) Rosie has made two mistakes. What are they?

She hasn't correctly exchanged.
She has multiplied by 4 not 40

b) What is the correct answer?

4 Work out the multiplications.

a) $4,284 \times 23$

b) $2,142 \times 46$

			4	2	8	4			
	×				2	3			
		1	2	8	5	2			
		8	5	6	8	0			
		<u>9</u>	<u>8</u>	<u>5</u>	<u>3</u>	<u>2</u>			

What do you notice?



