

# 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	
		2	5	9	1	4	

(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	
		3	2	0	8	4	

(  ×  )

(  ×  )

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	20,000	4,000	600	80
6	6,000	1,200	180	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)
		1	2	1	4	6	

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			
		9	8	5	3	2			

What do you notice?



- 5 A machine makes 2,734 boxes every hour.  
The machine works for 3 hours each day.  
a) How many boxes will it make in 12 days?

98,424

- b) Compare methods with a partner. Were there any other ways you could have worked out the answer?



- 6 Work out  $378 \times 7 \times 12$   
Show your method clearly.


31,752

7

1	2	3	4	5	6				

×

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- a) Using all the digit cards, create 4 different calculations and work out the answer to each.

*Various answers.*

- b) Write your answers in ascending order.

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- c) What is the smallest product that can be made?

31,928



- 8 Amir scores 4,680 points in a computer game for 12 games in a row.  
Whitney scores 2,512 points every game for 24 games.

Who scores more points?

Whitney

*Amir: 56,160*

*Whitney: 60,288*

How many more?

4,128

