13.01.21

LO: Multiply 4-digits by 2-digits.

13.01.21

LO: Multiply 4-digits by 2-digits.

Independent work

1. Complete the worksheet.

2. Have a go at the extension activities.

3. Write a self-assessment.

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

$(1{,}234 \times \boxed{})$

$(1{,}234 \times \boxed{})$

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

a) Complete his working out.

			1	2	3	4
	×				2	6
		7$_1$	4$_2$	0$_2$	4
		2	4	6	8	0

$(\boxed{} \times \boxed{})$

$(\boxed{} \times \boxed{})$

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				
6				

3 Rosie is calculating $2{,}541 \times 42$

Here is Rosie's working.

		2	5	4	1	
×				4	2	
		4$_1$	0	8	2	$(2{,}541 \times 2)$
		8$_2$	0$_1$	6	4	$(2{,}541 \times 40)$
	1$_1$	2	1$_1$	4	6	

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

_____

_____

b) What is the correct answer?

4 Work out the multiplications.

a) $4{,}284 \times 23$ **b)** $2{,}142 \times 46$

What do you notice?

5 A machine makes 2,734 boxes every hour.

The machine works for 3 hours each day.
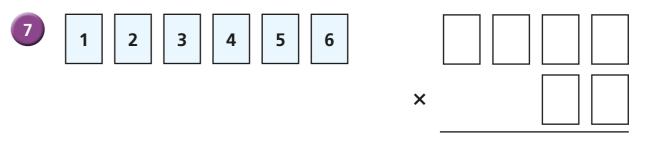
a) How many boxes will it make in 12 days?

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

6 Work out 378 × 7 × 12

Show your method clearly.

7

| 1 | 2 | 3 | 4 | 5 | 6 |

| | | | |

× | | |
_____

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

b) Write your answers in ascending order.

_____

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

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?   _____

How many more?

True or False?

$$4,630 \times 23 = 2,315 \times 46$$