

14.1.21

Multiplication and Division

Learning Objective:

We are learning to multiply a 4 digit number by a 2 digit number.

I will be successful if:

- I can set out my calculation correctly, remembering to add the zero.
- I can use times tables facts to help solve calculations.
- I can discuss my method..

Key Vocabulary

multiplication

exchanging

multiple groups of 10

product

value

digit

Flashback 4

Year 5 | Week 2 | Day 4



- 1) Work out 26^2
- 2) What is $£5 \times 13$?
- 3) Which has the greater area?

5 cm	5 cm	6 cm	
5 cm	A	4 cm	B
- 4) Put these lengths in ascending order.
350 metres $\frac{1}{2}$ metre 3 km



Challenge

- 5) $4382 \times 27 =$
- 6) $2532 \times 59 =$
- 7) $17021 \times 42 =$
- 8) $21363 \times 39 =$

Flashback 4

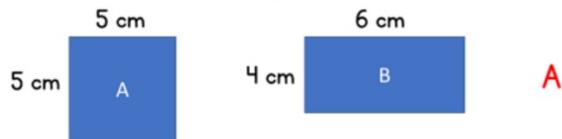
Year 5 | Week 2 | Day 4



1) Work out 26^2 **676**

2) What is $£5 \times 13$? **£65**

3) Which has the greater area?



4) Put these lengths in ascending order. $\frac{1}{2}$ metre, 350 metres, 350 metres, $\frac{1}{2}$ metre, 3 km, 3 km



Challenge

5) $4382 \times 27 = 118,314$

6) $2532 \times 59 = 149,388$

7) $17021 \times 42 = 714,882$

8) $21363 \times 39 = 833,157$

Recap from yesterday:

$$2436 \times 24 =$$

$$\begin{array}{r} 2436 \\ \times 24 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

Can you explain each of the steps to complete this calculation?

Have a go completing these now.

$$\begin{array}{r} 2409 \\ \times \quad 36 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5252 \\ \times \quad 28 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4765 \\ \times \quad 39 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

Which of these calculations has the closest answer to 400 000? Prove it!

5287×74	6247×65

You will need to complete either the grid method or column method to help you find out the answer.

Answers

Which of these calculations has the closest answer to 400 000? Prove it!

5287×74	6247×65
$5287 \times 74 = 391\,238$ $400\,000 - 391\,238 = 8762$	$6247 \times 65 = 406\,055$ $406\,055 - 400\,000 = 6055$

6247×65 has the closest answer to 400 000.

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Have a go at the calculations on the worksheet attached.

Extension - reasoning problems

Identify the missing digits in these calculations.

		3	2	4	
	×				6
	1		4	7	0
	9	7		5	0
	1		8	2	0

			4		7
	×			4	
	1	2		5	4
2	5		0	8	0
2		9	9		4

Answers

Identify the missing digits in these calculations.

Here is one way of finding each answer.

		3	2	4	5
	×			3	6
	1	9 ₁	4 ₂	7 ₃	0
	9	7	3 ₁	5	0
1	1	6	8	2	0
	1		1		

		6	4	2	7
	×			4	2
	1	2	8	5 ₁	4
2	5	7	0	8	0
2	6	9	9	3	4
			1		

Carrie has created a calculation using digit cards but her cat has knocked the digit cards out of place. Can you put each digit card back in the right place to create Carrie's calculation?

3 5 6 0 4 2

	×				
	2	6 2	0	0	8
1 1	9 1	5	0	6	0
2	2	1	0	6	8

1

Answers

Carrie has created a calculation using digit cards but her cat has knocked the digit cards out of place. Can you put each digit card back in the right place to create Carrie's calculation?

		6	5	0	2
	×			3	4
	2	$\begin{matrix} 6 \\ 2 \end{matrix}$	0	0	8
$\begin{matrix} 1 \\ 1 \end{matrix}$	$\begin{matrix} 9 \\ 1 \end{matrix}$	5	0	6	0
2	2	1	0	6	8

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