13.1.21 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 3

1) Multiply 34 by 27

2) A book costs £19
How much do 9 books cost?

3) Complete the sentence.
8 is a factor of .....

4) What is 48 ÷ 3?

White Rose Maths

Challenge

5) How many g are in 2kg and a half?
6) How many mm are in 3.25m?
7) How many ml are in 4.8l?
8) How many m are in 5.5km?

Flashback 4

Year 5 | Week 2 | Day 3

1) Multiply 34 by 27 — 918

2) A book costs £19
How much do 9 books cost? — £171

3) Complete the sentence.
8 is a factor of ..... — e.g 16, 24...

4) What is 48 ÷ 3? — 16

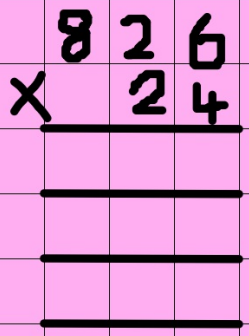
White Rose Maths

Challenge

5) How many g are in 2kg and a half? 2500g
6) How many mm are in 3.25m? 3250mm
7) How many ml are in 4.8l? 4800ml
8) How many m are in 5.5km? 5500m

Recap from yesterday:

826 x 24 =



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

What is different when multiplying a 4 digit number, compared to a 3 digit number?

Grid method

$2{,}313 \times 32 =$

×	2,000	300	10	3
30	60,000	9,000	300	90
2	4,000	600	20	6

$60{,}000 + 9{,}000 + 4{,}000 + 300 + 90 + 20 + 6 =$

74,016

Column method

```
 2313
x  32
 4626
69390
74016
1 1 1
```

Have a go completing these now.

2556	1978	2093
x 42	x 14	x 28

Niamh has answered some calculations using long multiplication but she has not recorded her working out.

Tick the correct answers and cross the incorrect ones.

For each incorrect answer, explain the mistake she has made. You may need to work the calculations out yourself to help with this.

2087 × 65 = 22 957	4260 × 35 = 149 100	6748 × 27 = 47236

Answers

Niamh has answered some calculations using long multiplication but she has not recorded her working out.

Tick the correct answers and cross the incorrect ones.

For each incorrect answer, explain the mistake she has made. You may need to work the calculations out yourself to help with this.

2087 × 65 = 22 957	4260 × 35 = 149 100	6748 × 27 = 47236
Incorrect. The correct answer is 135 655. Niamh has not inserted a placeholder so has calculated 2087 × 60. She has calculated 2087 × 6 instead.	**Correct.**	**Incorrect. The correct answer is 182 196. Niamh has multiplied 6748 by 7 but she has forgotten to multiply 6748 by 20.**
✗	✓	✗

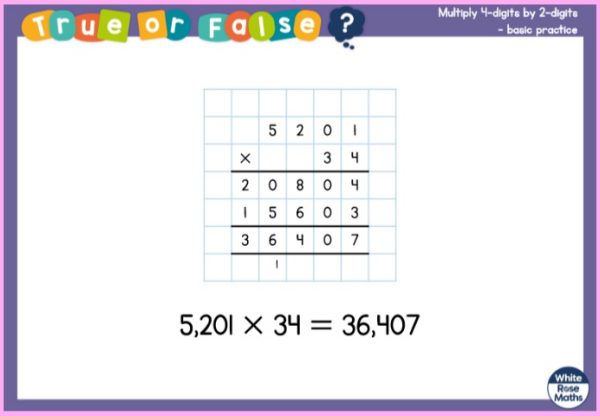
13.1.21

Have a go at the calculations below.

1) 2123 x 17 =
2) 3316 x 12 =
3) 2816 x 13 =
4) 4135 x 23 =
5) 1926 x 16 =
6) 1048 x 22 =
7) 44 x 1290 =
8) 26 x 7012 =
9) 38 x 6128 =
10) 29 x 8312=

Extension - reasoning problems

Prove it!



Teddy has spilt some paint on his calculation.

		2		6	9
×				2	
	2	2	9	5	2
	5	7	3		0
		0	3	3	2

What are the missing digits?

What do you notice?