11.1.21 Multiplication and Division

Learning Objective:
We are learning to multiply a 3 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 1

1) Use the diagram to work out 15 × 19

×	10	5
10		
9		

2) Multiply 32 by 5

3) What is the perimeter of a rectangle that has length 8 cm and width 3 cm?

4) What is the value of 6 in the number 16,412?

White Rose Maths

Challenge

5) (55-8) - (7 x 0) =

6) (74+ 21) - (6^2)

7) (3x3x3)= (21 + ?)

8) 12 weeks = ? days

Flashback 4

Year 5 | Week 2 | Day 1

1) Use the diagram to work out 15 × 19

×	10	5
10		
9		

285

2) Multiply 32 by 5 160

3) What is the perimeter of a rectangle that has length 8 cm and width 3 cm? 22 cm

4) What is the value of 6 in the number 16,412? 6,000

White Rose Maths

Challenge

5) (55-8) - (7 x 0) = 47

6) (74+ 21) - (6^2) 95 - 36 = 59

7) (3x3x3)= (21 + ?) 27 = 21 +6

8) 12 weeks = ? days 12 x 7 = 84

Recap from last week:

27 x 29 =

$$\begin{array}{r} 27 \\ \times\ 29 \\ \hline \\ \hline \\ \hline \end{array}$$

Why is the zero important when multiplying two 2 digit numbers?

Discussion

What will be the same when you move to multiplying a 3 digit number by a 2 digit number?

What will be different when you move to multiplying a 3 digit number by a 2 digit number?

28 x 14 =

163 x 31 =

Have a go completing these now. Don't forget your zero!

$$\begin{array}{r} 637 \\ \times\ 24 \\ \hline \\ \\ \hline \end{array} \qquad \begin{array}{r} 372 \\ \times\ 28 \\ \hline \\ \\ \hline \end{array} \qquad \begin{array}{r} 416 \\ \times\ 35 \\ \hline \\ \\ \hline \end{array}$$

Complete:

		1	3	2
×			1	4
		5	2 (1)	8
	1	3	2	0

(132 × 4)

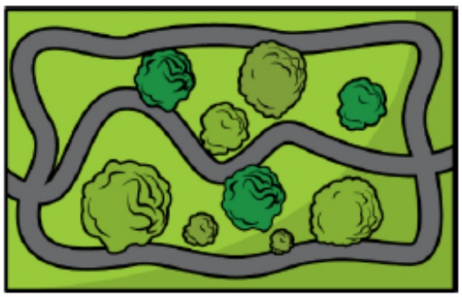
(132 × 10)

Use this method to calculate:

264 × 14 264 × 28

What do you notice about your answers?

A playground is 128 yards by 73 yards.



Calculate the area of the playground.

11.1.21

Have a go at the calculations below.

1) 223 x 17 =
2) 316 x 12 =
3) 216 x 13 =
4) 135 x 23 =
5) 226 x 16 =
6) 18 x 225 =
7) 24 x 129 =
8) 36 x 712 =
9) 31 x 628 =
10) 27 x 812=

Reasoning challenges

$22 \times 111 = 2442$

$23 \times 111 = 2553$

$24 \times 111 = 2664$

What do you think the answer to 25×111 will be?

What do you notice?

Does this always work?

Pencils come in boxes of 64
A school bought 270 boxes.
Rulers come in packs of 46
A school bought 720 packs.
How many more rulers were ordered than pencils?