

7.1.21

Multiplication and Division

Learning Objective:

We are learning to multiply two, 2 digit numbers.

I will be successful if:

- I can set out my calculation correctly.
- I can recall times tables.
- I can work with a partner to discuss the method.

Key Vocabulary

multiplication

exchanging

multiple groups of 10

product

value

digit

Base 10 representation

Flashback 4

Year 5 | Week 1 | Day 4



- 1) Multiply 1,305 by 6
- 2) A square has an area of 64 m^2
What is the length of one of its sides?
- 3) Which of these is a prime number?
10, 11 and 15
- 4) Find the sum of 199 and 198



Challenge

$$5) \quad _4_ + 1_8 = 375$$

$$6) \quad 4_9 + _6_ = 824$$

$$7) \quad _7_ - 2_9 = 612$$

$$8) \quad 5_8 - _7_ = 342$$

Flashback 4

Year 5 | Week 1 | Day 4

1) Multiply 1,305 by 6 **7,830**



2) A square has an area of 64 m^2
What is the length of one of its sides? **8 cm**

3) Which of these is a prime number?
10, 11 and 15 **11**

4) Find the sum of 199 and 198 **397**



Challenge

5) $247 + 128 = 375$

6) $459 + 365 = 824$

7) $871 - 259 = 612$

8) $518 - 176 = 342$

Discuss this example - can you explain what is happening in each section?

$$21 \times 12 = 252$$

×	10	10	1
10	100	100	10
1	10	10	1
1	10	10	1

×	20	1
10	200	10
2	40	2

$$200 + 40 + 10 + 2 = 252$$

Now have a go at this one.

$$34 \times 23 =$$

\times	30	4
20		
3		

Answers

$$34 \times 23 = 782$$

\times	30	4
20	600	80
3	90	12

$$600 + 90 + 80 + 12 = 782$$

Now complete the grid for $27 \times 14 =$

Try and complete these calculations following the steps from the last slide.

$$\begin{array}{r} 13 \\ \times 24 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 13 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 23 \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

True or False ?

Multiply 2-digits (area model)



Mo has multiplied 37 by 23 correctly.

×	30	7
20	60	14
3	120	21

		6	0
		1	4
	1	2	0
+		2	1
<hr/>			
	2	1	5

Spot the Mistakes

Can you spot and correct the errors in the calculation?

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

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Have a go at the calculations on the worksheet attached.