

Year 5 – Spring Block 1 – Multiplication and Division – Multiply 2-Digits by 2-Digits

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 5: (5C6a) [Multiply and divide numbers mentally drawing upon known facts](#)

Mathematics Year 5: (5C6b) [Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000](#)

Mathematics Year 5: (5C7a) [Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers](#)

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

Step 3: Multiply 2-Digits by 2-Digits

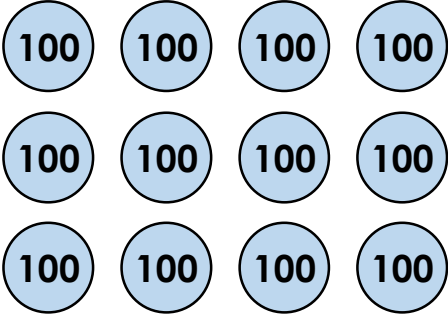
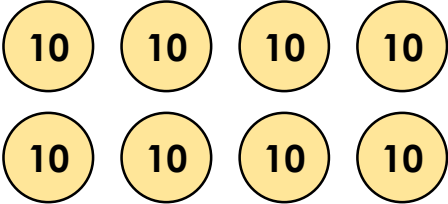
Introduction

Complete the calculation.

	40	0
30		
2		

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	40	0
30		
2		

$$40 \times 32 = 1,280$$

Varied Fluency 1

Complete the calculation.

	40	5
30	100 100 100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
3	10 10 10 10 10 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Varied Fluency 1

Complete the calculation.

	40	5
30	100 100 100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
3	10 10 10 10 10 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

$$45 \times 33 = 1,485$$

Varied Fluency 2

Complete the multiplication sequence.

$$36 \times 21 = \boxed{756}$$

$$37 \times 21 = \boxed{777}$$

$$38 \times 21 = \boxed{}$$

Varied Fluency 2

Complete the multiplication sequence.

$$36 \times 21 = 756$$

$$37 \times 21 = 777$$

$$38 \times 21 = 798$$

Varied Fluency 3

True or false? $46 \times 25 = 943$

		4	6	
x		2	5	
2	3	0		(46 x 5)
	3			
8	2	0		(46 x 20)
	2			
1	0	5	0	

Varied Fluency 3

True or false? $46 \times 25 = 943$

		4	6	
x		2	5	
2	3	0		(46 x 5)
	3			
9	2	0		(46 x 20)
1	2			
1	1	5	0	

False. $46 \times 25 = 1,150$

Varied Fluency 4

Complete the calculation.

$$\begin{array}{r} 3 8 \\ x 3 7 \\ \hline \square \square 6 \quad (38 \times 7) \\ 5 \\ \square \square \square 0 \quad (38 \times 30) \\ \hline \square \square \square \square \end{array}$$

Varied Fluency 4

Complete the calculation.

$$\begin{array}{r} 38 \\ \times 37 \\ \hline \boxed{2} \boxed{6} 6 \quad (38 \times 7) \\ 5 \\ \boxed{1} \boxed{1} \boxed{4} 0 \quad (38 \times 30) \\ 2 \\ \hline \boxed{1} \boxed{4} \boxed{0} \boxed{6} \\ 1 \end{array}$$

Problem Solving 1

Multiply 2-digits by 2-digits using the cards below.

x		

4

8

2

1

Problem Solving 1

Multiply 2-digits by 2-digits using the cards below.

Various answers, for example:

		2	8
	x	4	1
		2	8
1	1 ₃	2	0
1	1 ₁	4	8

		4	8
	x	2	1
		4	8
	9 ₁	6	0
1	0 ₁	0	8

Problem Solving 2

Kamren is thinking of a number...



I multiply the number by 25. The answer is odd and is greater than 500 but smaller than 600.

**What could Kamren's number be?
Write all of the possibilities.**

Problem Solving 2

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I multiply the number by 25. The answer is odd and is greater than 500 but smaller than 600.

**What could Kamren's number be?
Write all of the possibilities.**

21 or 23

Reasoning 1

Gideon solves the following multiplication.



$$\begin{array}{r} 46 \\ \times 25 \\ \hline 230 \\ 812 \\ \hline 1042 \end{array}$$

Is he correct? Explain why.

Reasoning 1

Gideon solves the following multiplication.



$$\begin{array}{r} 46 \\ \times 25 \\ \hline 230 \\ 812 \\ \hline 1042 \end{array}$$

Is he correct? Explain why.

No, Gideon is not correct because...

Reasoning 1

Gideon solves the following multiplication.



$$\begin{array}{r} 46 \\ \times 25 \\ \hline 230 \\ 812 \\ \hline 1042 \end{array}$$

$$\begin{array}{r} 46 \\ \times 25 \\ \hline 230 \\ 920 \\ \hline 1150 \end{array}$$

Is he correct? Explain why.

No, Gideon is not correct because $6 \times 20 = 120$ and he has recorded it as 12, forgetting to enter 0 in the ones column. The answer should be 1,150.