

Year 5 – Spring Block 1 – Multiplication and Division – Multiply 4-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: (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.

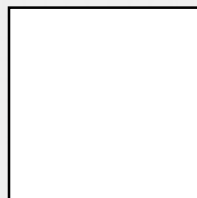
Did you like this resource? Don't forget to [review](#) it on our website.

Step 5: Multiply 4-Digits by 2-Digits

Introduction

Compare the calculations using $>$, $<$ or $=$.

	4	3	2
x		1	7



	6	1	3
x		1	2

Introduction

Compare the calculations using $>$, $<$ or $=$.

	4	3	2
x		1	7
3	0	2	4
	2	1	
4	3	2	0
7	3	4	4

$<$

	6	1	3
x		1	2
1	2	2	6
6	1	3	0
7	3	5	6

Varied Fluency 1

Use the grid method to complete the calculation below.

x	10	2
3,000		
100		
20		
4		

$$3,124 \times 12 =$$

Varied Fluency 1

Use the grid method to complete the calculation below.

x	10	2
3,000	30,000	6,000
100	1,000	200
20	200	40
4	40	8

$$3,124 \times 12 = 37,488$$

Varied Fluency 2

True or false? This calculation is matched to the correct answer.

$$9,620 \times 10$$

9,620,000

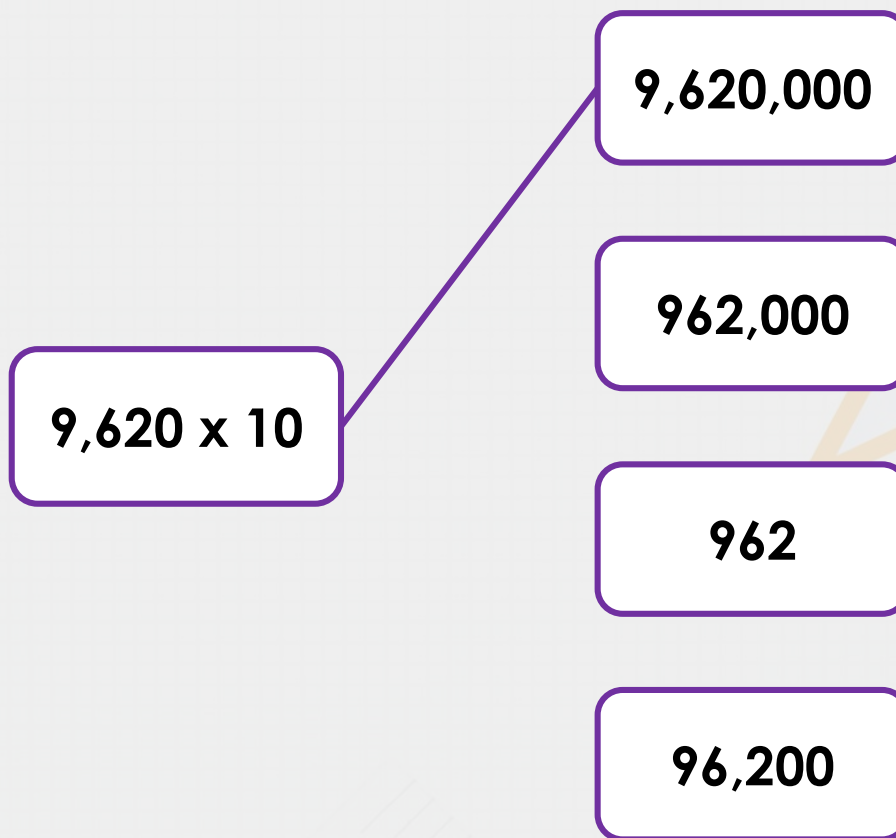
962,000

962

96,200

Varied Fluency 2

True or false? This calculation is matched to the correct answer.



False. $9,620 \times 10 = 96,200$

Varied Fluency 3

Complete the calculation below.

	2	0	1	2
x			3	4

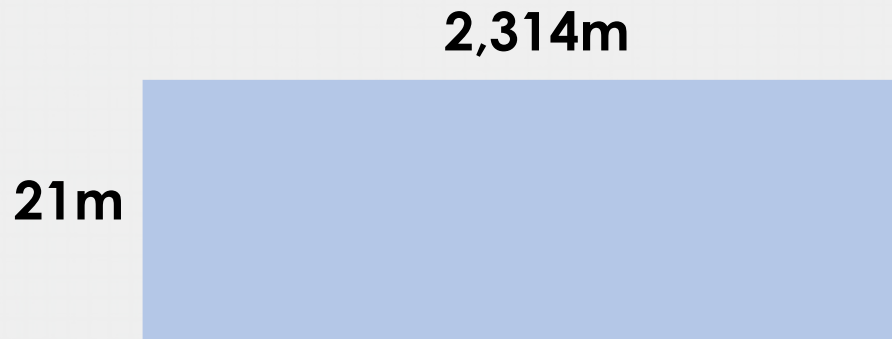
Varied Fluency 3

Complete the calculation below.

	2	0	1	2
x			3	4
	8	0	4	8
6	0	3	6	0
6	8	4	0	8
		1		

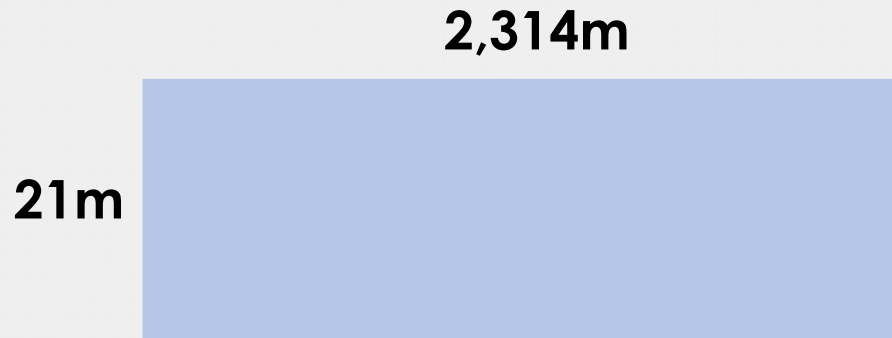
Varied Fluency 4

Calculate the area of this school.



Varied Fluency 4

Calculate the area of this school.



$$2,314\text{m} \times 21\text{m} = 48,594\text{m}^2$$

Problem Solving 1

Work out the missing numbers.

$$\begin{array}{r} \\ \\ \times \\ \hline \\ 3 \\ \hline 3 \\ \end{array}$$

Problem Solving 1

Work out the missing numbers.

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

Problem Solving 2

Use two of these digit cards to create a multiplication equal to approximately 99,000.

$$4,312 \quad \times \quad \underline{\hspace{2cm}}$$

2

3

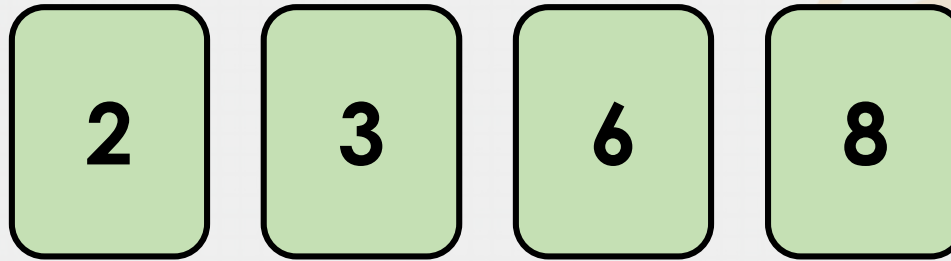
6

8

Problem Solving 2

Use two of these digit cards to create a multiplication equal to approximately 99,000.

$$4,312 \quad \times \quad \underline{\hspace{2cm}}$$



$$4,312 \times 23 = 99,176$$

Reasoning 1

A quad bike costs £7,015.

12 people buy a quad bike each.

The quad bike sales person says,

The total cost is
£84,280.



Is he correct? Explain your answer.

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No, he is not correct because...

Reasoning 1

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12 people buy a quad bike each.

The quad bike sales person says,

The total cost is
£84,280.



Is he correct? Explain your answer.

No, he is not correct because $£7,015 \times 12 = £84,180$