# Year 5 – Spring Block 1 – Multiplication and Division – Multiply 4-Digits by 1-Digit

## 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: (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.

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# Step 1: Multiply 4-Digits by 1-Digit

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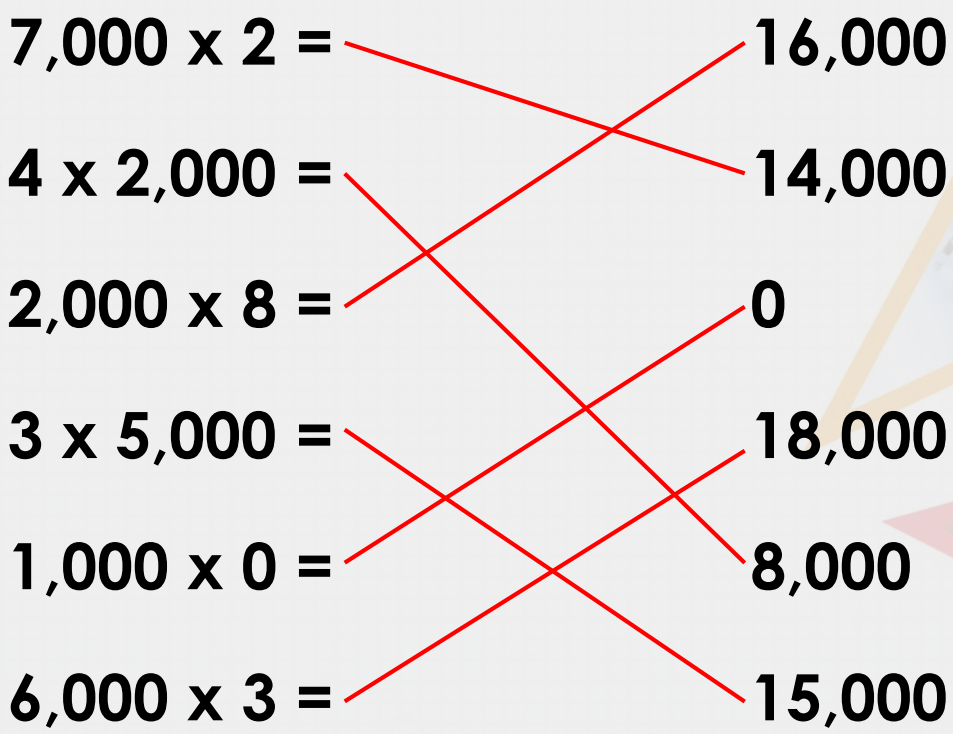
## Introduction

# Match each calculation to the correct answer.

| | |
|---|---|
| 7,000 x 2 = | 16,000 |
| 4 x 2,000 = | 14,000 |
| 2,000 x 8 = | 0 |
| 3 x 5,000 = | 18,000 |
| 1,000 x 0 = | 8,000 |
| 6,000 x 3 = | 15,000 |

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# Match each calculation to the correct answer.

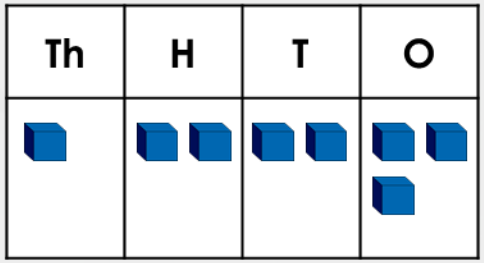


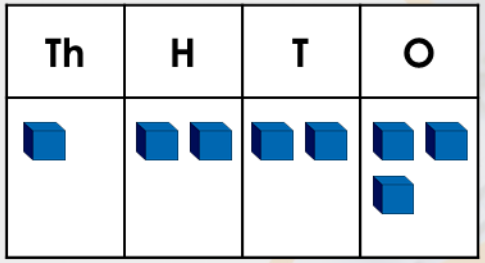

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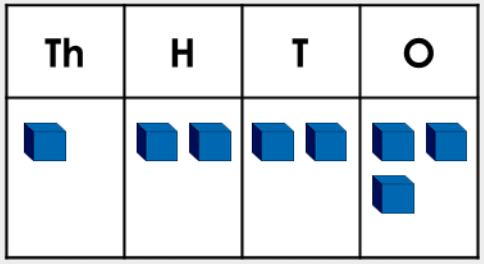
## Varied Fluency 1

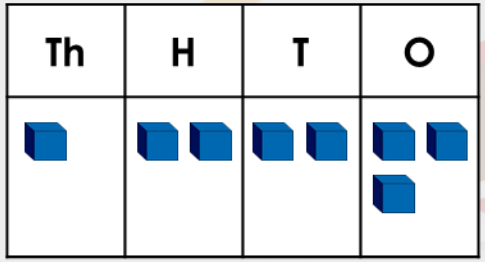
**True or false?**

**1,223 x 4 = 4,887**



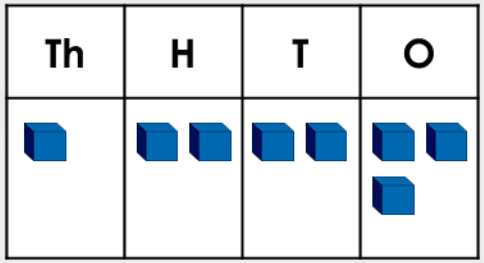



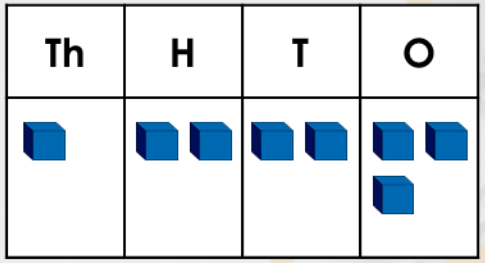

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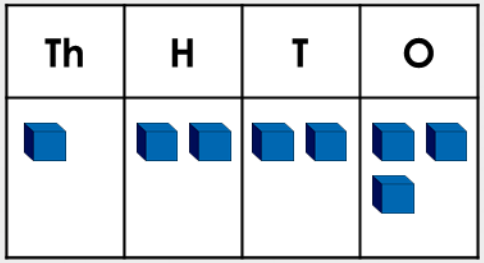
## Varied Fluency 1

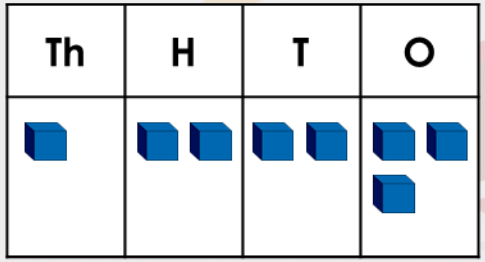
**True or false?**

**1,223 x 4 = 4,887**




**False: 1,223 x 4 = 4,892**

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# Varied Fluency 2

**Complete the calculations.**

| Th | H | T | O |
|---|---|---|---|
| 1 | 5 | 0 | 1 |
| | | | 5 |
| | | | |

x

| Th | H | T | O |
|---|---|---|---|
| 3 | 4 | 3 | 7 |
| | | | 2 |
| | | | |

x

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# Varied Fluency 2

**Complete the calculations.**

| Th | H | T | O | |
|---|---|---|---|---|
| 1 | 5 | 0 | 1 | |
| | | | 5 | x |
| 7 | 5 | 0 | 5 | |

2

| Th | H | T | O | |
|---|---|---|---|---|
| 3 | 4 | 3 | 7 | |
| | | | 2 | x |
| 6 | 8 | 7 | 4 | |

1

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## Varied Fluency 3

There are 2,901 counters in a bag.

How many counters will there be in 3 bags?

| Th | H | T | O | |
|---|---|---|---|---|
| | | | | |
| | | | | x |
| | | | | |

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## Varied Fluency 3

There are 2,901 counters in a bag.

How many counters will there be in 3 bags?

| Th | H | T | O | |
|---|---|---|---|---|
| 2 | 9 | 0 | 1 | |
| | | | 3 | x |
| 8 | 7 | 0 | 3 | |
| 2 | | | | |

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## Varied Fluency 4

Use >, < or = to make each statement correct.

2,136 x 2 ☐ 1,433 x 3

4,122 x 4 ☐ 3,011 x 5

1,256 x 3 ☐ 1,059 x 4

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## Varied Fluency 4

**Use >, < or = to make each statement correct.**

| | | |
|---|---|---|
| 4,272 | < | 4,299 |
| 16,488 | > | 15,055 |
| 3,768 | < | 4,236 |

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## Problem Solving 1

Teddy has completed the following calculations.

2,831 x 3 = 8,493

1,071 x 5 = 5,355

1,126 x 3 = 3,378

4,126 x 2 = 6,261

Mark and correct his work.

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## Problem Solving 1

Teddy has completed the following calculations.

2,831 x 3 = 8,493 ✓

1,071 x 5 = 5,355 ✓

1,126 x 3 = 3,378 ✓

4,126 x 2 = 6,261 ✗

4,126 x 2 = 8,252

Mark and correct his work.

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# Problem Solving 2

**Work out the missing numbers.**

| Th | H | T | O | |
|---|---|---|---|---|
| | 0 | 9 | 1 | |
| | | | | x |
| 8 | 7 | | 8 | |

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# Problem Solving 2

**Work out the missing numbers.**

| Th | H | T | O | |
|---|---|---|---|---|
| 1 | 0 | 9 | 1 | |
| | | | 8 | x |
| 8 | 7 | 2 | 8 | |

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## Reasoning 1

**A mountain bike costs £1,148.**

**Mr. Potts wants to buy one for himself and one for his teenage son.**

**Mr Potts says,**

> **The total cost of the two mountain bikes is £2,300.**



**Is he correct? Prove it.**

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## Reasoning 1

**A mountain bike costs £1,148.**

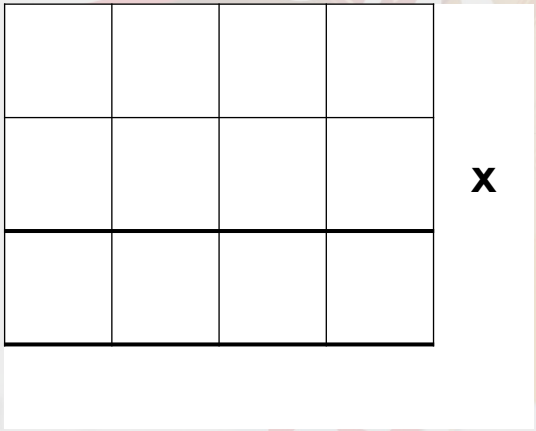
**Mr. Potts wants to buy one for himself and one for his teenage son.**

**Mr Potts says,**

> **The total cost of the two mountain bikes is £2,300.**



**Is he correct? Prove it.**
**No, Mr Potts is not correct because…**




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## Reasoning 1

**A mountain bike costs £1,148.**

**Mr. Potts wants to buy one for himself and one for his teenage son.**

**Mr Potts says,**

> **The total cost of the two mountain bikes is £2,300.**



**Is he correct? Prove it.**

**No, Mr Potts is not correct because it would cost £2,296 for 2 mountain bikes.**

| | | | | |
|---|---|---|---|---|
| 1 | 1 | 4 | 8 | |
| | | | 2 | x |
| 2 | 2 | 9 | 6 | |
| | | 1 | | |

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