

In maths this week, we are going to be solving problems using multiplication and division.

### **Lesson 1**

Watch this short video - <https://vimeo.com/418156588> - which will go over multiplying and dividing by 10, 100 and 1000.

The questions for this lesson can be found here:

<https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-1-Multiply-and-divide-by-10-100-and-1000.pdf>

You can still answer the questions in your book.

### **Lesson 2**

Watch this short video - <https://vimeo.com/418156804> - which covers multiplying decimals by integers.

The questions for this lesson can be found here:

<https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-2-Multiply-decimals-by-integers-2019.pdf>

You can still answer the questions in your book.

Watch this short video - <https://vimeo.com/418156950> - which covers dividing decimals by integers.

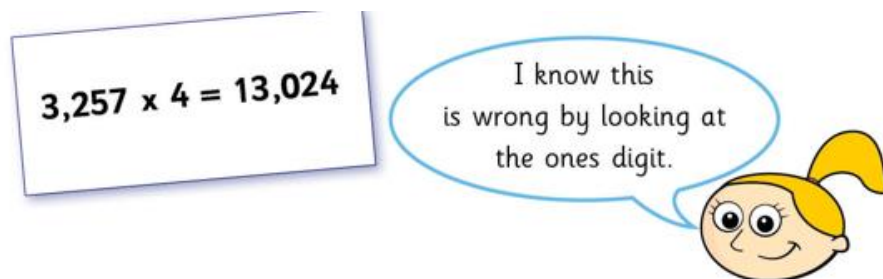
The questions for this lesson can be found here:

<https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3-Divide-decimals-by-integers-2019.pdf>

You can still answer the questions in your book.

### **Lesson 3**

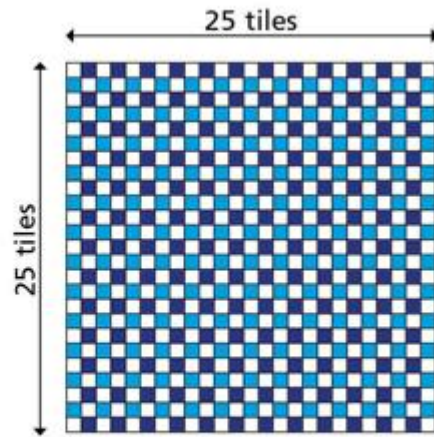
We have covered long multiplication before. Children must remember to have the two digit number on the bottom of their sum, add the place holder in the correct place, and to carry accurately. This recap will challenge the children to use what they know to solve more complex problems.



Is Eva correct?



Mr Smith has tiled his kitchen floor.



Each tile costs 18p.

How much does the floor cost in total?

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 2 | 3 | 6 | 5 |
|---|---|---|---|---|

What is the greatest product you can make that is also an odd number?



## Lesson 4

We have looked at short division previously and here is a short video to remind you what you already know - <https://www.youtube.com/watch?v=SLze82Zcc4Y>.

If you can use short division to solve a sum you always should, but it is essential that you know your times tables. Now try to solve the following.

### 1 Complete the divisions.

a)

|  |   |   |   |   |  |
|--|---|---|---|---|--|
|  |   |   |   |   |  |
|  |   |   |   |   |  |
|  | 5 | 5 | 6 | 5 |  |
|  |   |   |   |   |  |

|  |   |   |   |   |  |
|--|---|---|---|---|--|
|  |   |   |   |   |  |
|  |   |   |   |   |  |
|  | 5 | 6 | 6 | 5 |  |
|  |   |   |   |   |  |

|  |   |   |   |   |   |  |  |
|--|---|---|---|---|---|--|--|
|  |   |   |   |   |   |  |  |
|  |   |   |   |   |   |  |  |
|  | 5 | 4 | 6 | 5 | 0 |  |  |
|  |   |   |   |   |   |  |  |

b)

|  |   |   |   |   |  |
|--|---|---|---|---|--|
|  |   |   |   |   |  |
|  |   |   |   |   |  |
|  | 3 | 9 | 6 | 3 |  |
|  |   |   |   |   |  |

|  |   |   |   |   |  |
|--|---|---|---|---|--|
|  |   |   |   |   |  |
|  |   |   |   |   |  |
|  | 3 | 9 | 7 | 2 |  |
|  |   |   |   |   |  |

|  |   |   |   |   |   |  |  |
|--|---|---|---|---|---|--|--|
|  |   |   |   |   |   |  |  |
|  |   |   |   |   |   |  |  |
|  | 3 | 2 | 0 | 7 | 9 |  |  |
|  |   |   |   |   |   |  |  |

### 2 Continue the sequence.

12, 24, 36, 48, 60, , , ,

Complete the short divisions.

|  |    |   |   |   |   |
|--|----|---|---|---|---|
|  |    |   |   |   |   |
|  |    |   |   |   |   |
|  | 12 | 6 | 2 | 5 | 2 |
|  |    |   |   |   |   |

|  |    |   |   |   |   |
|--|----|---|---|---|---|
|  |    |   |   |   |   |
|  |    |   |   |   |   |
|  | 12 | 2 | 0 | 0 | 4 |
|  |    |   |   |   |   |

|  |    |   |   |   |   |
|--|----|---|---|---|---|
|  |    |   |   |   |   |
|  |    |   |   |   |   |
|  | 12 | 1 | 1 | 8 | 8 |
|  |    |   |   |   |   |

Match each division to the remainder.

$756 \div 4$

$757 \div 4$

$758 \div 4$

$759 \div 4$

$760 \div 4$

r0

r1

r2

r3

r4

r5

$756 \div 2$

$756 \div 3$

$756 \div 4$

$756 \div 5$

$756 \div 6$

Complete the calculations.

a)  $637 \div 5 =$

b)  $1,036 \div 8 =$

c) Two thousand divided by eleven is equal to \_\_\_\_\_

\_\_\_\_\_.

d)  $297 \div$    $= 3$

Work out the values of  $a$ ,  $b$ ,  $c$  and  $d$ .

|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 1,386 |     |     |     |     |     |     |
| $a$   | $a$ | $a$ | $a$ | $a$ | $a$ | $a$ |

$$a = \boxed{\phantom{000}}$$

|       |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| $b$   | $b$ | $b$ | $b$ | $b$ | $b$ | $b$ | $b$ | $b$ |
| 3,339 |     |     |     |     |     |     |     |     |

$$b = \boxed{\phantom{000}}$$



How much does one bottle cost?

What do you think the marvellous mistake many people make with this question?

Tommy is thinking of a number between 800 and 900

He divides it by 4 and there is a remainder of 1

He divides it by 5 and there is a remainder of 1

He divides it by 6 and there is a remainder of 1

He divides it by 7 and there is a remainder of 1

What is Tommy's number?

8 Complete the divisions.

a)

|   |  |  |   |   |   |  |  |
|---|--|--|---|---|---|--|--|
|   |  |  |   |   |   |  |  |
|   |  |  | 0 | 4 | 8 |  |  |
| 6 |  |  |   |   |   |  |  |
|   |  |  |   |   |   |  |  |
|   |  |  |   |   |   |  |  |

b)

|   |  |   |   |   |   |    |  |
|---|--|---|---|---|---|----|--|
|   |  |   |   |   |   |    |  |
|   |  |   | 2 | 4 | 8 | r1 |  |
| 4 |  | 9 |   | 3 |   |    |  |
|   |  |   |   |   |   |    |  |
|   |  |   |   |   |   |    |  |

c)

|  |  |   |   |   |   |    |  |
|--|--|---|---|---|---|----|--|
|  |  |   |   |   |   |    |  |
|  |  |   | 0 | 9 | 1 | r7 |  |
|  |  | 7 | 3 |   |   |    |  |
|  |  |   |   |   |   |    |  |
|  |  |   |   |   |   |    |  |

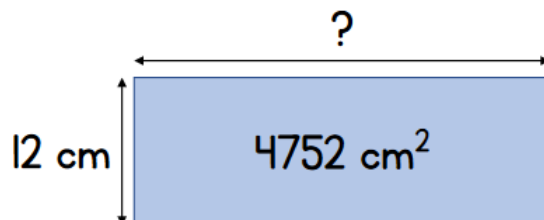
## True or False ?

Short division

Both questions will have the same answer.

1  $12 \overline{) 4752}$

2 Work out the length of the rectangle.



Explain your answer.