



Thorpedene Primary School

Year 6

Maths

Miss Hutchinson's Maths Group

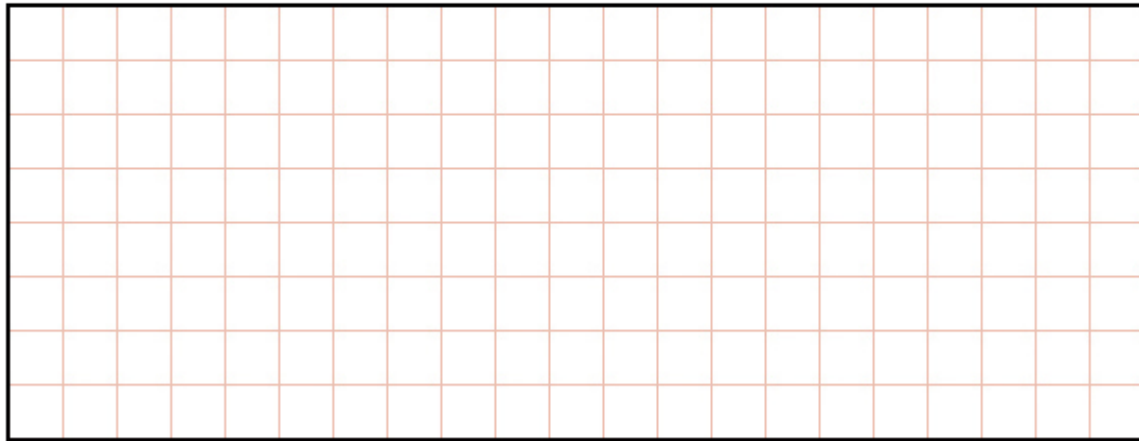
# 4.1.21

## Long Multiplication



### Silent Starter

$5 \times 4 \times 7 =$



1 mark

$8 \times 3 \times 3 =$

$9 \times 3 \times 4 =$

### Toolboxes

4x

6x

7x

8x

**The Year 6 objective is to multiply 4-digit numbers by 4-digit numbers.**

**That's the end goal!**



LO: To multiply numbers to 4 x 4 digits

## Your Task:

Roll a dice to create two numbers or create your own numbers.

Multiply them together using long multiplication.

It is up to you whether you want to roll a 4-digit, 3-digit etc.



Key

1)

2)

3)

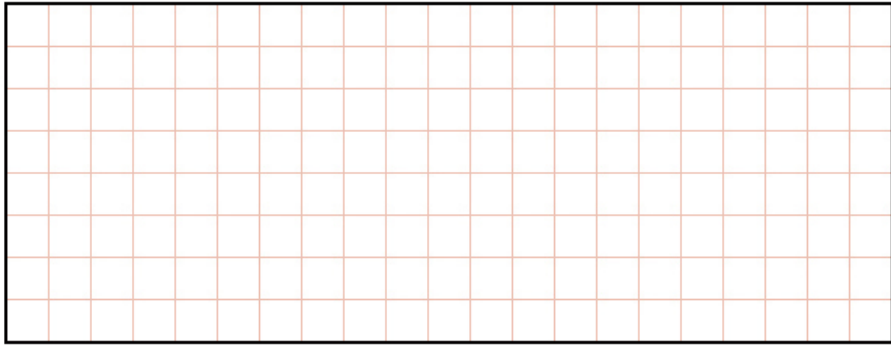
# 5.1.21

## Long Multiplication



### Silent Starter

$24 \times 3 =$



1 mark

$46 \times 7 =$

$28 \times 9 =$

$46 \times 6 =$

### Toolboxes

4x

6x

7x

8x

Further practise with long multiplication

$$14 \times 543$$

$$775 \times 83$$

$$245 \times 72$$

$$62 \times 721$$

$$17 \times 294$$

$$546 \times 21$$

$$49 \times 611$$

$$87 \times 621$$

$$60 \times 531$$

$$621 \times 97$$



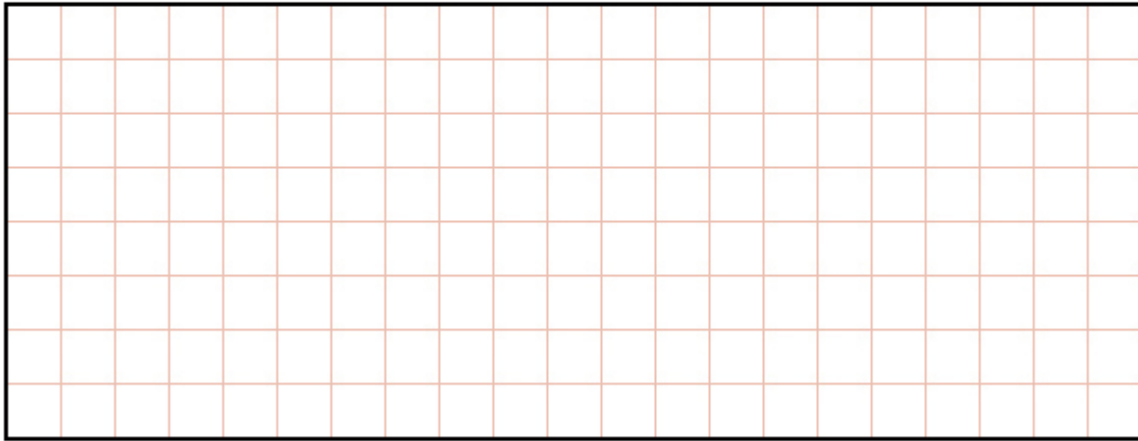
# 6.1.21

## Short Division



### Silent Starter

$2,345 \times 1,000 =$



1 mark

$1234 \times 1000 =$

$435 \times 1000 =$

$221 \times 1000 =$

Short Division without  
remainder

### Toolboxes

4x

6x

7x

8x

$$145 \div 5 = 29$$

$$\begin{array}{r} \phantom{0}29 \\ 5 \overline{) 145} \\ \underline{5} \phantom{0} \\ 14 \phantom{0} \\ \underline{10} \phantom{0} \\ 45 \\ \underline{45} \\ 0 \end{array}$$

How many 5s are there in 145?  
How many 5s are there in 145?



$$670 \div 5 = 134$$

$$\begin{array}{r} \boxed{1} \boxed{3} \boxed{4} \\ 5 \overline{) 670} \\ \underline{5} \phantom{0} \\ 17 \phantom{0} \\ \underline{15} \phantom{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

How many 5s are there in 20?

$$362 \div 2 = 181$$

$$\begin{array}{r} \boxed{1} \boxed{8} \boxed{1} \\ 2 \overline{) 362} \\ \underline{6} \phantom{0} \\ 6 \phantom{0} \\ \underline{12} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

How many 2s are there in 362?

$$608 \div 2 = 304$$

		<b>3</b>		<b>0</b>		<b>4</b>
<b>2</b>	<b>6</b>	□	<b>0</b>	□	<b>8</b>	

How many 2s are there in 0?  
How many are left over?

$$642 \div 3 = 214$$

$$\begin{array}{r} \boxed{2} \boxed{1} \boxed{4} \\ 3 \overline{) 6 \square 4 \square 2} \end{array}$$

How many 3s are there in 4?  
How many are left over?

$$512 \div 4 = 128$$

$$\begin{array}{r} \phantom{4} \overline{) 512} \\ 4 \phantom{0} \\ \hline 128 \end{array}$$

How many 1s are there in 128?  
How many are left over?



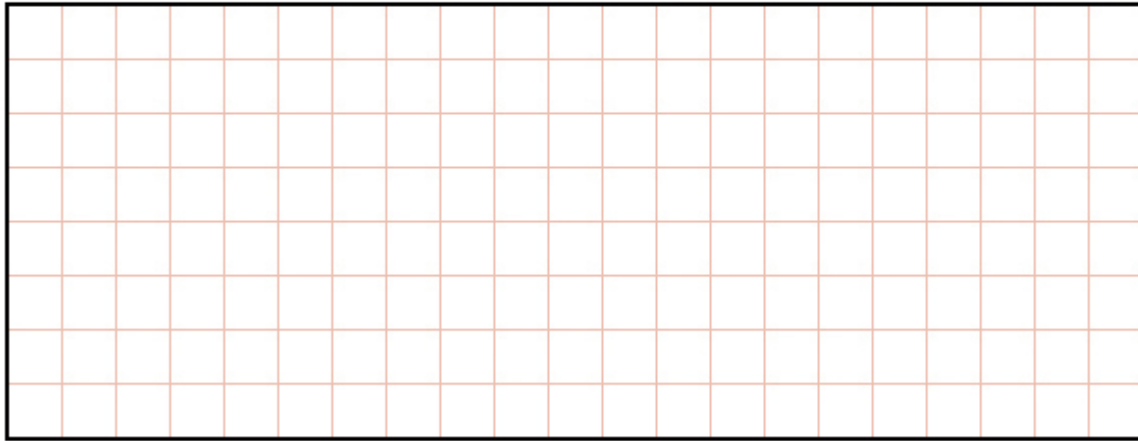
# 7.1.21

## Short Division



### Silent Starter

$30 \times 40 =$



1 mark

$20 \times 30 =$

$30 \times 30 =$

$40 \times 50 =$

Short Division without  
remainder

### Toolboxes

4x

6x

7x

8x

**1.**  $429 \div 3 =$

**2.**  $560 \div 4 =$

**3.**  $615 \div 5 =$

**4.**  $764 \div 4 =$

**5.**  $288 \div 3 =$

**6.**  $670 \div 5 =$

**7.**  $488 \div 2 =$

**8.**  $920 \div 4 =$

**9.**  $363 \div 3 =$

**10.**  $510 \div 5 =$

**16.**  $592 \div 4 =$

**17.**  $684 \div 2 =$

**18.**  $328 \div 4 =$

**19.**  $648 \div 8 =$

**20.**  $684 \div 6 =$

**21.**  $954 \div 9 =$

**22.**  $637 \div 7 =$

**23.**  $678 \div 6 =$

**24.**  $665 \div 7 =$

**25.**  $945 \div 9 =$





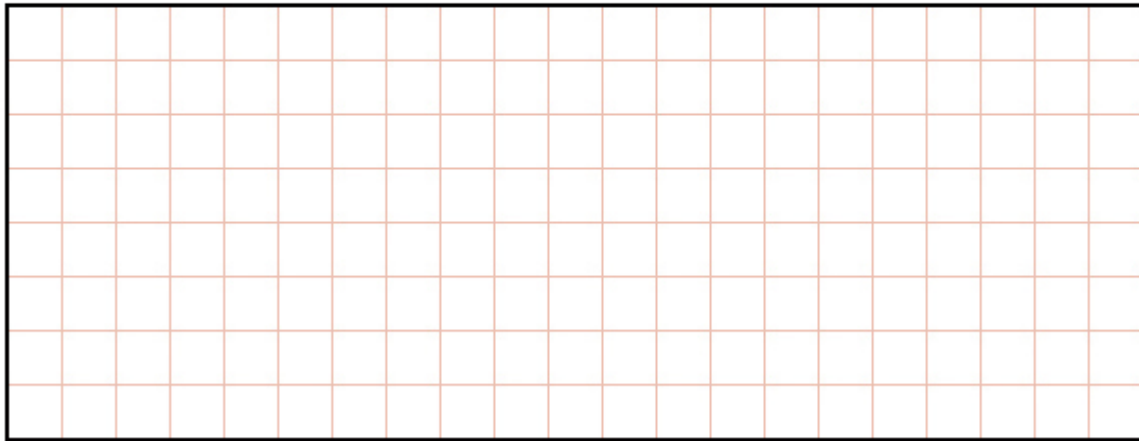
# 8.1.21

## Short Division



### Silent Starter

$5 \times 4 \times 10 =$



1 mark

$2 \times 3 \times 10 =$

$5 \times 5 \times 10 =$

$3 \times 4 \times 10 =$

Short Division without  
remainder word  
problems

### Toolboxes

4x

6x

7x

8x



9. Connor had 91 marbles. He shared them out equally between 7 bags. How many marbles were in each bag?