# **Knowledge Organiser - Maths**

# **Multiplication and division**

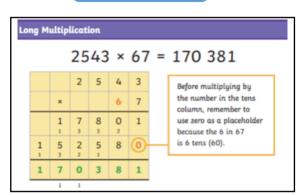
### Multiply and dividing by 10, 100 and 1,000

When a number is multiplied by 10, 100 or 1,000, the digits move to the left in the place value column. The digits move 1 place left when we multiply by 10, 2 places to multiply by 100 and 3 places to multiply by 1,000.

The empty place value spaces are filled with a **0** as a place holder.

TH	Н	T	0	
	4	2	3	
	10(10/100)00	10 10	111	
10(10/100)00	10 10	111	0	x10

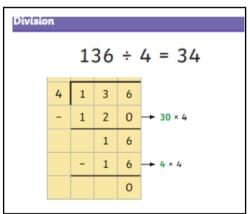
423 x 10 = 4,230



When a number is divided by 10, 100 or 1,000, the digits move to the right in the place value column: **1 place** when dividing by 10, **2 places** to divide by 100 and **3 places** to divide by 1,000.

Look what happens when we divide 7,900 by 10, 100 and 1,000:

TH	Н	T	0	t	
7	9	0	0		
	7	9	0		÷10
		7	9		÷100
		7	9		



# Length and perimeter

# Key Vocabulary metre (m)

centimetre (cm)

millimetre (mm)

height

length

width

perimeter

further/furthest

higher/highest

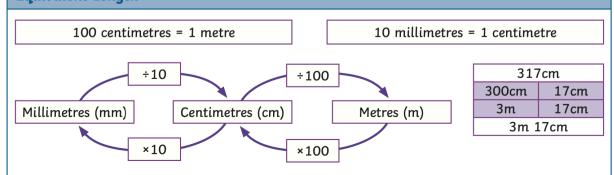
longer/longest

shorter/shortest

taller/tallest

# Measure Length 5mm 5cm CM Inches 10mm = 1cm

# **Equivalent Length**



## Perimeter

