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# Castlefield School- Maths

Topic: Multiply and divide 2 and 3 digit numbers

Year: Four

Theme: Multiplication and Division

### Key concepts and questions Why do you need to start multiplying from the ones? When multiplying numbers by a 1 digit number you must always start from the ones column as you may need to make an exchange. Formal written method 3-digit x 1-digit 148 x 4 18 x 6 1) $8 \times 6 = 48$ 8 4 3) 160 + 3 tens exchanged 2) $10 \times 6 = 60$ 3) 60 + 4 tens4) 100 x 4 = 400 exchanged = 100 5) 400 + 1 hundred exchanged

## What is a remainder?

In division, the whole may not always share into equal groups. The amount left over is called the remainder.



27 ÷ 8 = 3 remainder 3

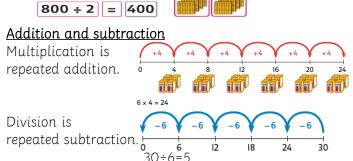
	Key Vocabulary			
	Hundreds	tens	ones	zero
	place value	multiply	divide	times tables
	whole	The total	С	Multiplication can be done either way e.g. 6x4=24 and 4x6=24
	partition	Split into parts.		
	remainder	The part left over.	factor pairs	2 numbers which multiply to equal a whole. E.g. 3 and 6 are factors of 18.
	group	Place items into equal groups.		
	share	Split a whole into equal groups.	array	Place objects into rows and columns.

Representations

# Making connections

# Multiplication facts

Make use of known multiplication and division facts as an efficient method.

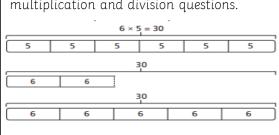


# Part whole models

This will help with separating the whole into parts to multiply and divide.

## Bar Model

A bar model helps to represent multiplication and division questions.



#### 90 ÷ 3 6 ÷ 3 $6 \times 3$ = 30

 $96 \div 3$ 

96 ÷ 3

Formal multiplication Place value charts and counters help with exchanging.



