

Multiplication and division

Lesson	sequence
•	Multiples
• Con	nmon multiples
•	Factors
• Co	mmon factors
• Pr	ime numbers
• Sq	uare numbers
• CI	ube numbers
Multiply I	by 10,100 and 1000
• Divide	e by 10,100,1000
Multiples	of 10, 100 and 1000
Sticky	learning
New Knowledge	New Skills
To know that factors are numbers that divide exactly into another number.	• To multiply and divide numbers mentally drawing upon known facts
To know that a multiple is the product result of one number multiplied by another number.	 To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 To identify multiples and factors, including finding all factor pairs of a number, and common factors two numbers. To establish whether a number up to 100 is prime and To work out square numbers and cube numbers To solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
To know that prime numbers are numbers which only have two factors	
To recall prime numbers up to 19 To know that squaring a number means multiplying it by itself and it is notated as	
() To know that cubing a number is multiplying it by itself three times it is notated as ()	

Vocabulary revision

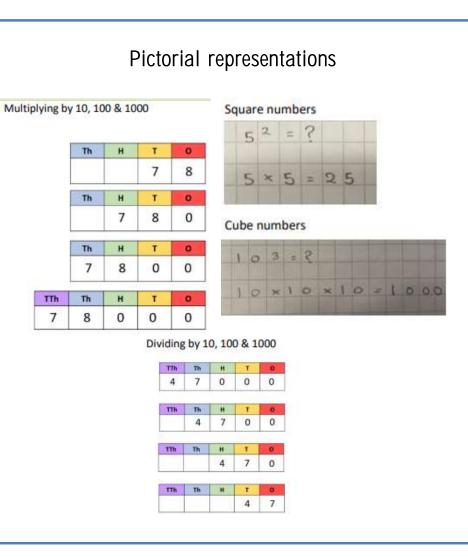
- Multiples
- Factors
- Common factors
- Common multiples
- Multiply
- Divide

New vocabulary I will learn

- Prime numbers
- Square numbers
- Cube numbers







Concept Links/Prior Knowledge

- To use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together three numbers
- To use factor pairs and commutativity in mental calculations
- To multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- Use mental methods and extend this to three-digit numbers to derive facts, (for example 600 ÷ 3 = 200 can be derived from 2 x 3 = 6
- To use knowledge of number facts and rules of arithmetic to solve mental and written calculations for example, 2 x 6 x 5 = 10 x 6 = 60
- To recall multiplication and division facts for multiplication tables up to 12 × 12 including the six, seven and nine times tables
- To know that commutativity is when 2 numbers can be added or multiplied & the same answer will be found no matter what order they are in