



Year 3 Multiplication and division Knowledge

Star Vocabulary

multiple
divide
Repeated addition
Repeated subtraction
multiplier (factor)
multiplication
Product
division
divisor
times
Quotient
inverse
Group
Lot of
array

Recognise the place value of each digit in four-digit numbers.

Recognise the place value of each digit up to 2 decimal places.

The **number line** is an effective way to represent multiplication and division. It shows grouping clearly and helps with counting on and back.

Arrays visually show multiplication and division. They are clear at showing commutativity, such as $2 \times 5 = 5 \times 2$

Multiplication:

$$6 \times 3 = 18$$

Factor (or Multiplier) Factor (or Multiplicand) Product

dividend divisor quotient

$$20 \div 4 = 5$$

divisor quotient dividend

Sentence Stems

What is the missing number?
_____ x 3 = 27

What is the missing number?
4x _____ = 6

An athlete runs 12km every day for 5 days. How many kilometres do they run in total?

Misconceptions: Why?

A number multiplied or divided by 0 doesn't equal the original number:
 $0 \times 3 = 0$ (not 3)

Multiplication and addition aren't the same: $2+2+2 = 6$ and $3 \times 2 = 6$ but you can use

Factual & Conceptual Fluency progression

