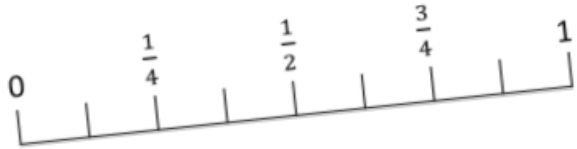
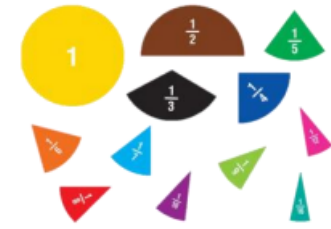


# Year 5 Maths

## Unit of learning: Fractions Unit B

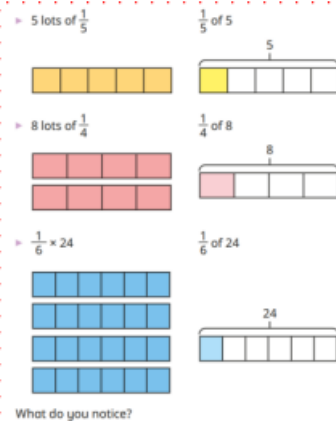
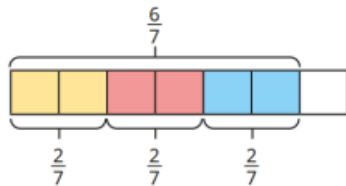


Duration: Approx. 3 weeks of learning time.

### Learning Objectives

- Multiply a unit fraction by an integer.
- Multiply a non-unit fraction by an integer.
- Multiply a mixed number by an integer.
- Calculate a fraction of a quantity.
- Fraction of an amount.
- Find the whole.
- Use fractions as operators.

• Brett uses a bar model to work out  $3 \times \frac{2}{7} = \frac{6}{7}$



<u>Vocabulary</u>	<u>Definition</u>
Fraction	A part of a whole. A whole number that has been divided into equal parts.
Numerator	The number above the line in the fraction. It is the part of the whole that we have.
Denominator	The number below the line in a fraction. It is the number of parts in the whole.
Simplify	Reducing the fraction into its simplest or smallest form.
Equivalent fraction	Fractions that have the same value, even though their numerators and denominators are different.
Mixed number	An integer and a fraction together. For example: $1\frac{1}{2}$
Non-unit fraction	A fraction with a numerator greater than one.
integer	A whole number that can be either positive or negative, for example: $-1, 1, 4-7, 8$ .
Fraction of an amount	This is where you calculate a portion or a part of an amount, for example $\frac{1}{4}$ of 40 = 10.  Another example would be $\frac{1}{6} \times 18 = 3$ . There are some clear links to division here too.



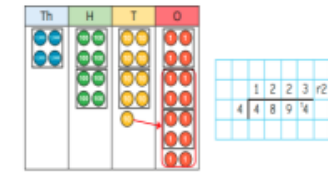
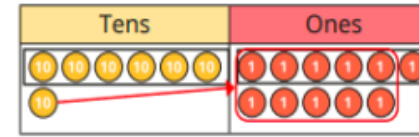
As children of God we are loved, we are called, and we are inspired.



# Year 5 Maths Spring 1

## Unit of learning: Multiplication and division

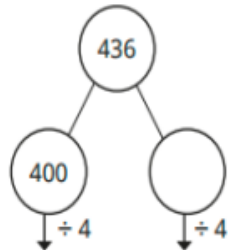
Duration: Approx. 3 weeks of learning time.



### Learning Objectives

- Multiply a 4-digit number by a 1-digit number.
- Multiply a 2-digit number by a 2-digit number.
- Multiply a 3-digit number by a 2-digit number.
- Multiply a 4-digit number by a 2-digit number.
- Solve problems with multiplication.
- Short division.
- Divide a 4-digit number by a 1-digit number.
- Divide with remainders.
- Efficient division.
- Solve problems with multiplication and division.

#### Method 1: Partitioning



Tiny is working out  $2,240 \div 7$

This cannot be done because 7 is greater than each of the digits in the number.



Do you agree with Tiny?  
Explain your answer.

Vocabulary	Definition
Multiply	Repeated addition.
Divide	Share a number into a certain number of groups.
Exchange	Swapping ten ones for a ten, swapping ten tens for a thousand etc.
Altogether	In total.
Estimate	Working out a rough answer to a calculation.
Place holder	A zero in a place value column.
Remainder	What is left over after a number has been divided by a whole number.

$$3,495 \div 5 \quad \bigcirc \quad 3,495 \div 3$$

$$8,064 \div 7 \quad \bigcirc \quad 9,198 \div 7$$

$$4,244 \div 4 \quad \bigcirc \quad 8,488 \div 8$$

		1	2	2	3 r2
4	4	8	9	14	



As children of God we are loved, we are called, and we are inspired.

