Mereside
Church of England Primary Academy
Learn to Love, Love to Learn

Year: 6

Subject: Maths

Title:

Fractions (B)

What key knowledge do I need to have before this unit?

- Multiplying a fraction by a whole number
- Dividing unit fractions by whole numbers and whole numbers by unit fractions

Key outcomes:

What I need to know by the end of this unit of work:

- Multiply simple pairs of proper fractions, writing the answer in its simplest form
- Divide proper fractions by whole numbers
- Divide proper fractions by whole numbers
- Multiply simple pairs of proper fractions, writing the answer in its simplest form
- Calculating fractions of an amount.
- Calculation fractions of an amount – finding the whole.

National Curriculum Links:	Key Vocabulary and Definitions:
•Multiply simple pairs of proper fractions, writing the answer in its simplest form. • Divide proper fractions by whole numbers • Divide proper fractions by whole numbers •Multiply simple pairs of proper fractions, writing the answer in its simplest form	**Factors** – a number or quantity that when multiplied with another produces a given number. **Multiples** - numbers that result from multiplying one whole number by another whole number. **Denominator –** The number below the fraction line that represents the total number of equal parts. **Numerator –** The number above the fraction line that indicates the number of parts being considered. **Simplify –** To reduce a fraction to its simplest form by dividing the numerator and denominator by their greatest common factor. **Proper Fraction -** The numerator is less than the denominator **Improper Fraction -** The numerator is greater than or equal to the denominator

Fractions B

Fractions: Recognise and write

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
• recognise, find and name a half as one of two equal parts of an object, shape or quantity • recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	• recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	• count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 • recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	• identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths • recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]	
Summer 2	Summer 1	Spring 3	Spring 4 Summer 1	Autumn 4	

Fractions: Compare

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	• Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	• recognise and show, using diagrams, equivalent fractions with small denominators • compare and order unit fractions, and fractions with the same denominators	• recognise and show, using diagrams, families of common equivalent fractions	• compare and order fractions whose denominators are all multiples of the same number	• use common factors to simplify fractions; use common multiples to express fractions in the same denomination • compare and order fractions, including fractions > 1
	Summer 1	Spring 3	Spring 3	Autumn 4	Autumn 3

Fractions: Solve problems

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		• solve problems that involve all of the above	• solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number		
		Spring 3 Summer 1	Spring 3		