

St John Fisher RC Primary School **Year 6 Maths Knowledge Organiser Autumn 2 Block 4 - Fractions (1)**

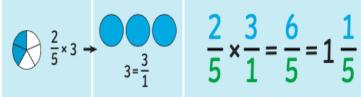
	Objectives	Self-Assessment	Teacher
•	I can multiply simple pairs of proper fractions, writing the answer in the simplest form such as $1/4 \times 1/2 = 1/8$.		
•	I can divide proper fractions by whole numbers such as $1/3 \div 2 = 1/6$.	(i) (i)	

Multiply & Divide

Multiplying Fractions by Fractions

$$\frac{1}{2} \times \frac{1}{3} = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

Multiplying Fractions by Whole Numbers



$$\frac{2}{5} \times \frac{3}{1} = \frac{6}{5} = 1\frac{1}{5}$$

$$\frac{2}{5} \div 2 = \frac{1}{5}$$

Multiplication and division are the inverse of one another so:

$$\div$$
 2 is the same as \times $\frac{1}{2}$

$$\frac{2}{5} \times \frac{1}{2} = \frac{2}{10}$$

Key Vocabulary						
multiplication To take one number and continuously add it a number of times.						
To break up a number into a given number of smaller parts.						
The number above the line in a fractio	n.					
denominator The number below the line in a fractio						
proper fraction A fraction that has a smaller numerator		denominator.				
improper fraction		denominator.				
mixed fraction An integer (number) combined with a		ction.				
convert To change a value from one form to another e.g. mixed fraction to an improper fraction.		mixed fraction to an improper fraction.				
partition To separate numbers to smaller parts to make them easier to work with.						
Sentenc	e Stems					
To multiply a fraction by an integer, I need to multiply the		To multiply a mixed number by an integer, I can partition it into				
numerator by		nd and then multiply them both by the integer.				
		If you divide into equal groups, then each group is because divided by = .				
	I can divi	de proper fractions by whole numbers such as 1/3 ÷ 2 = 1/6.				
multiplication To take one number and continuous division To break up a number into a given numerator numerator The number above the line in a fract denominator The number below the line in a fract proper fraction A fraction that has a smaller numerate improper fraction A fraction that has a larger numerate mixed fraction An integer (number) combined with convert To change a value from one form to partition To separate numbers to smaller part Senter To multiply a fraction by an integer, I need to multiply the numerator by I am dividing each by, so I much split each part into equal parts.		To take one number and continuously add it a new To break up a number into a given number of small The number above the line in a fraction. The number below the line in a fraction. A fraction that has a smaller numerator than the A fraction that has a larger numerator than the A fraction than the A fraction that has a larger numerator than the A fraction than the A fraction than the A fraction that has a larger numerator than the A fraction. Sentence Stems by an integer, I need to multiply the I for multiply the I				

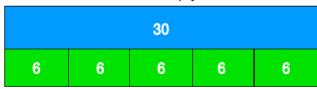


St John Fisher RC Primary School Year 6 Maths Knowledge Organiser Autumn 2 Block 4 – Fractions (2)

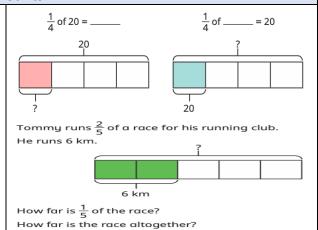
Objectives		Self-Assessment	Teacher
	I can find fractions of amounts.	(i) (i)	
	I can find fractions of amounts to solve problems.		

Fractions of Amounts

To find the fraction of a number, divide by the denominator and multiply the numerator



e.g. for 1/6 of 30, calculation is 30 divided by 6 = 5For 4/6 of 30, calculation is 30 divided by 6 = 5, then $4 \times 5 = 20$.



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Key Vocabulary				
multiplication To take one number and continuously add it a number of times.				
division To break up a number into a given number of smaller parts.				
numerator The number above the line in a fraction.				
denominator The number below the line in a fraction.				
proper fraction	or than the denominator.			
improper fraction				
mixed fraction An integer (number) combined with a proper fraction.				
	Sentenc	e Stems		
The whole is divided into equal parts. Each part is worth		The numerator is, so the fraction is worth _	•	
To find one part, I need to divide by		To find the whole, I need to multiply by $__$.		
	Assess	sment		
I can find fractions of amounts.		I can find fractions of amounts to solve problems.		