Topic/Skill	Definition/Tips	Example
1. Fraction	A mathematical expression representing the	$\frac{2}{7}$ is a 'proper' fraction.
	division of one integer by another.	, , ,
	Fractions are written as two numbers	$\frac{9}{4}$ is an 'improper' or 'top-heavy'
	separated by a horizontal line.	fraction.
2. Numerator	The top number of a fraction.	In the fraction $\frac{3}{5}$, 3 is the numerator.
3. Denominator	The bottom number of a fraction.	In the fraction $\frac{3}{5}$, 5 is the denominator.
4. Unit Fraction	A fraction where the numerator is one and the denominator is a positive integer.	$\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ etc. are examples of unit fractions.
5. Reciprocal	The reciprocal of a number is 1 divided by the number .	The reciprocal of 5 is $\frac{1}{5}$
	The reciprocal of x is $\frac{1}{x}$	The reciprocal of $\frac{2}{3}$ is $\frac{3}{2}$, because
	When we multiply a number by its reciprocal we get 1. This is called the 'multiplicative inverse'.	$\frac{2}{3} \times \frac{3}{2} = 1$
6. Mixed Number	A number formed of both an integer part and a fraction part .	$3\frac{2}{5}$ is an example of a mixed number.
7. Simplifying	Divide the numerator and denominator	20 _ 4
Fractions	by the highest common factor.	$\frac{1}{45} = \frac{1}{9}$
8. Equivalent Fractions	Fractions which represent the same value .	$\frac{2}{5} = \frac{4}{10} = \frac{20}{50} = \frac{60}{150} etc.$
9. Comparing Fractions	To compare fractions, they each need to be rewritten so that they have a common	Put in to ascending order: $\frac{3}{4}$, $\frac{2}{3}$, $\frac{5}{6}$, $\frac{1}{2}$.
	denominator.	Equivalent: $\frac{9}{12}, \frac{8}{12}, \frac{10}{12}, \frac{6}{12}$
	Ascending means smallest to biggest.	12 12 12 12
		Correct order: $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$
10 5	Descending means biggest to smallest.	2 0 1 0
10. Fraction of an Amount	Divide by the bottom , times by the top	Find $\frac{2}{5}$ of £60
an / mount		$60 \div 5 = 12$
11. Adding or	Find the LCM of the denominators to find	$12 \times 2 = 24$ $2 4$
Subtracting	a common denominator.	3 + 5
Fractions	Use equivalent fractions to change each	Multiples of 3: 3, 6, 9, 12, 15
	fraction to the common denominator .	Multiples of 5: 5, 10, 15 LCM of 3 and 5 = 15
		LCIVI OI 3 and 3 – 13

	Then just add or subtract the numerators and keep the denominator the same .	$\frac{2}{3} = \frac{10}{15}$ $\frac{4}{5} = \frac{12}{15}$
		$\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1\frac{7}{15}$
12.	Multiply the numerators together and	3 2 6 1
Multiplying	multiply the denominators together.	$\frac{1}{8} \times \frac{1}{9} = \frac{1}{72} = \frac{1}{12}$
Fractions		
13. Dividing Fractions	'Keep it, Flip it, Change it – KFC' Keep the first fraction the same Flip the second fraction upside down Change the divide to a multiply	$\frac{3}{4} \div \frac{5}{6} = \frac{3}{4} \times \frac{6}{5} = \frac{18}{20} = \frac{9}{10}$
	Multiply by the reciprocal of the second fraction.	