Maths Knowledge Organiser

Factors and M	ultiples	
Factor	A number that	The factors of 18 are:
	divides exactly into	1, 2, 3, 6, 9, 18
	another number	
	without a	The factor pairs of 18
	remainder.	are:
		1 & 18, 2 & 9, 3 & 6
	It is useful to write	
	factors in pairs	
Highest	The biggest number	The HCF of 6 and 9 is 3
Common	that divides exactly	because it is the biggest
Factor	into two or more	number that divides
(HCF)	numbers.	into 6 and 9 exactly.
Multiple	The result of	The first five multiples
	multiplying a	of 7 are:
	number by an	
	integer.	7, 14, 21, 28, 35
	The times tables of	
	a number.	
Lowest	The smallest	The LCM of 3, 4 and 5 is
Common	number that is in the	60 because it is the
Multiple	times tables of each	smallest number in the
(LCM)	of the numbers	3, 4 and 5 times tables.
	given.	

Primes		
Prime Number	A number with exactly	The first ten prime
	two factors.	numbers are:
	A number that can only	
	be divided by itself and	2, 3, 5, 7, 11, 13, 17,
	one.	19, 23, 29
	The number 1 is not	
	prime, as it only has one	
	factor, not two.	
Prime Factor	A factor which is a prime	The prime factors of 18
	number.	are:
		2,3

Simplifying		
x times x	The answer is x^2 not	Squaring is multiplying
	2x.	by itself, not by 2.
$p \times p \times p$	The answer is p^3 not	If p=2, then
	3 <i>p</i>	p3=2x2x2=8, not 2x3=6
p+p+p	The answer is 3p not	If p=2, then 2+2+2=6,
	p ³	not 2 ³ = 8

Factorising		
Factorise	The reverse of expanding. Factorising is writing an expression as a product of terms by 'taking out' a common factor.	6x - 15 = 3(2x - 5), where 3 is the common factor.

Square	The number you get	1, 4, 9, 16, 25, 36,
Number	when you multiply a	49, 64, 81, 100,
Wallibel	number by itself.	121, 144, 169, 196
	number by itsen.	225
		$9^2 = 9 \times 9$
		= 81
Square Root	The number you	$\sqrt{36} = 6$
	multiply by itself to	V20 = 0
	get another number.	because 6 × 6 =
		36
	The reverse process	
	of squaring a	
	number.	
Cube Number	The number you get	1, 8, 27, 64, 125
	when you multiply a	$2^3 = 2 \times 2 \times 2$
	number by itself and	= 8
	itself again.	
Cube Root	The number you	³ √125 = 5
Case noor	multiply by itself	V123 = 5
	and itself again to	because 5 × 5 ×
	get another number.	5 = 125
	ost and the finance.	3 - 123
	The reverse process	
	of cubing a number.	
Powers of	The powers of a	The powers of 3
	number are that	are:
	number raised to	3 ¹ = 3
	various powers.	$3^2 = 9$
		$3^3 = 27$
		$3^4 = 81$ etc.
Multiplication	When multiplying	$7^5 \times 7^3 = 7^8$
Index Law	with the same base	$a^{12} \times a = a^{13}$
	(number or letter),	$4x^5 \times 2x^8 = 8x^{13}$
	add the powers.	
	$a^m \times a^n = a^{m+n}$	
Division Index	When dividing with	$15^7 \div 15^4 = 15^3$
Law	the same base	$x^9 \div x^2 = x^7$
	(number or letter),	$20a^{11} \div 5a^{3}$
	subtract the powers.	$= 4a^{8}$
	$a^m \div a^n = a^{m-n}$	
Brackets Index	When raising a	$(y^2)^5 = y^{10}$
Laws	power to another	$(6^3)^4 = 6^{12}$
	power, multiply the	$(5x^6)^3 = 125x^{18}$
	powers together.	
	$(a^m)^n = a^{mn}$	
Notable	$p = p^1$	$99999^0 = 1$
Powers	$p^0 = 1$	I

Fraction A mathematical expression representing the division of one integer by another. Fractions are written as two numbers separated by a horizontal line. Numerator The top number of a fraction. Denominator The bottom number of a fraction. Unit Fraction A fraction where the numerator is one and the denominator is a positive integer. Mixed Number A number formed of both an integer part and a fraction part. Simplifying Fractions Fractions Fractions Fractions Fractions To compare fractions, they each need to be rewritten so that they have a common denominator. Ascending means smallest to biggest to smallest. Adding or Subtracting Fractions to change each fraction to the common denominator. Use equivalent fractions to change each fraction to the common denominator the same. Adding or subtract the numerator and sheep the denominator the same. Adding or subtract the numerator and sheep the denominator the same. At mathematical expression in the division of one integer by a fix in a fraction. Practions A fraction where the numerator and a fraction part. B in the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 3 is the numerator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$, 5 is the denominator. In the fraction $\frac{3}{5}$	Fractions		
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Fractions common denominator. Use equivalent fractions to change each fraction to the common denominator. Then just add or subtract the numerators and keep the denominator the $\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1$	_		3+5
Use equivalent fractions to change each fraction to the common denominator. Then just add or subtract the numerators and keep the denominator the $12, 15$ Multiples of 5: 5, 10, 15 LCM of 3 and 5 = 15 $\frac{2}{3} = \frac{10}{15} \text{ and } \frac{4}{5} = \frac{12}{15}$	_	1	
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common denominator. Then just add or subtract the numerators and keep the denominator the		_	
Then just add or subtract the numerators and keep the denominator the $\frac{2}{3} = \frac{10}{15} \text{ and } \frac{4}{5} = \frac{12}{15}$ $\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1$			
subtract the numerators and keep the denominator the $\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1\frac{7}{15}$			$\frac{2}{1} = \frac{10}{10}$ and $\frac{4}{10} = \frac{12}{10}$
numerators and keep the denominator the $\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1\frac{7}{15}$		_	3 15 5 15
10 10 10			10 12 22 7
10 10 10			$\frac{1}{15} + \frac{1}{15} = \frac{1}{15} = 1\frac{7}{15}$
· · · · · · · · · · · · · · · · · · ·		1	10 10 10 15
		•	

Rounding	timating To make a number	74 rounded to the
nounding	simpler but keep its	nearest ten is 70,
	value close to what it	because 74 is closer to
	was.	70 than 80.
	was.	70 than 60.
	If the digit to the right	152,879 rounded to
	of the rounding digit is	the nearest thousand
	less than 5, round	is 153,000.
	down.	,
	If the digit to the right	
	of the rounding digit is 5	
	or more, round up.	
Decimal Place	The position of a digit to	In the number 0.372,
	the right of a decimal	the 7 is in the second
	point.	decimal place.
		0.372 rounded to two
		decimal places is 0.37,
		because the 2 tells us
		to round down.
		to round down.
		Careful with money -
		don't write £27.4,
		instead write £27.40
Significant	The significant figures of	In the number
Figure	a number are the digits	0.00821, the first
	which carry meaning (ie.	significant figure is the
	are significant) to the	8.
	size of the number.	
		In the number 2.740,
	The first significant	the 0 is not a
	figure of a number	significant figure.
	cannot be zero.	
		0.00821 rounded to 2
	In a number with a	0.00821 rounded to 2 significant figures is
	In a number with a decimal, trailing zeros	
	In a number with a	significant figures is 0.0082.
	In a number with a decimal, trailing zeros	significant figures is 0.0082. 19357 rounded to 3
	In a number with a decimal, trailing zeros	significant figures is 0.0082. 19357 rounded to 3 significant figures is
	In a number with a decimal, trailing zeros	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to
	In a number with a decimal, trailing zeros	significant figures is 0.0082. 19357 rounded to 3 significant figures is
	In a number with a decimal, trailing zeros	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros
	In a number with a decimal, trailing zeros	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the
Estimate	In a number with a decimal, trailing zeros	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same
Estimate	In a number with a decimal, trailing zeros are not significant.	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns.
Estimate	In a number with a decimal, trailing zeros are not significant. To find something close	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the
Estimate Approximation	In a number with a decimal, trailing zeros are not significant. To find something close	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer.	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer.	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692 0.526 300 + 700
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer. When using approximations to	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer. When using approximations to estimate the solution to	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692 0.526 300 + 700 0.5 = 2000
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer. When using approximations to estimate the solution to a calculation, round	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692 0.526 8 300 + 700 0.5 = 2000
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer. When using approximations to estimate the solution to a calculation, round each number in the	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692 0.526 300 + 700 ≈ 300 + 700 0.5 = 2000 'Note that dividing by 0.5 is the same as
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer. When using approximations to estimate the solution to a calculation, round each number in the calculation to 1 significant figure.	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692 0.526 8 300 + 700 0.5 = 2000
	In a number with a decimal, trailing zeros are not significant. To find something close to the correct answer. When using approximations to estimate the solution to a calculation, round each number in the calculation to 1	significant figures is 0.0082. 19357 rounded to 3 significant figures is 19400. We need to include the two zeros at the end to keep the digits in the same place value columns. An estimate for the height of a man is 1.8 metres. 348 + 692 0.526 300 + 700 ≈ 300 + 700 0.5 = 2000 'Note that dividing by 0.5 is the same as