

Progression in mathematical language: multiplication and division

Y1	National Curriculum vocabulary expectations	National Curriculum content domain
		Number - multiplication and division
	NCETM additional language support (sentence stems)	NCETM general statements / additional phrases
2.1	<p>There are __ one penny coins; the total value is __ pence.</p> <p>This is a __-pence coin. It has a value of __ p.</p> <p>There are __ coins. Each coin has a value of __ p. This is __ p.</p> <p>The _____ costs __ p. Each coin has a value of __ p. So I need __ coins.</p>	<p>I say two pence, but I think two one-pennies.</p> <p>I say five pence, but I think five one-pennies.</p> <p>I say ten pence, but I think ten one-pennies.</p> <p>[dual counting]</p> <p>One group of two, two groups of two, three groups of two...</p> <p>Two, four, six</p>

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Y2	National Curriculum vocabulary expectations	National Curriculum content domain
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NCETM additional language support (sentence stems)		NCETM general statements / additional phrases
2.2	<p>[before grouping] There are some _____.</p> <p>[after grouping] The _____ have been grouped.</p> <p>The groups are <u>equal</u> because there are the same number of _____ in each group.</p> <p>The groups are <u>unequal</u> because there are a different number of _____ in each group.</p> <p>[equal groups]</p> <p>There are __ equal groups of __ .</p> <p>There are __ __ in each group.</p> <p>There are __ groups of __ .</p> <p>[repeated addition]</p> <p>There are __ and __ and __ and</p> <p>We can write this as __ plus __ plus __ plus</p> <p>[multiplication expression]</p> <p>There are __ groups of __ . (which is linked to the multiplication expression) __ x __</p> <p>We can write this as __ times __ .</p> <p>There are __ groups of __ .</p> <p>There are __ __ 's.</p>	
2.3	<p>__ times __ is equal to __ .</p>	<p>Factor times factor is equal to the product.</p> <p>The product is equal to factor times factor.</p> <p>Number of groups x group size = product.</p> <p>Group size x number of groups = product.</p>

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2.4	<p>__ is a factor. __ is a factor. The product of __ and __ is __ .</p> <p>__ is the product of __ and __ .</p> <p>__ group of __ is equal to __ . __ groups of __ are equal to __ .</p> <p>__ times __ is equal to __ .</p> <p>__ , __ time is equal to __ . __ , __ times is equal to __ .</p> <p>__ times __ is equal to __ .</p> <p>The product of __ and zero is zero.</p> <p>The product of __ and one is __ . The product of one and __ is __ .</p>	<p>For every one group of ten, there are two groups of five.</p> <p>Products in the ten times table are also in the five times table.</p> <p>When zero is a factor, the product is zero.</p> <p>When one is a factor, the product is equal to the other factor.</p>
2.5	<p>(one equation, two interpretations)</p> <p>__ times __ can represent __ groups of __ .</p> <p>It can also represent __ groups of __ (or __ , __ times).</p> <p>If there are __ equal groups, we can use the __ times table.</p> <p>There are two groups of __ . There are __ , two times. This is the same as double __ .</p> <p>__ , two times is the same as double __ .</p> <p>I know double __ is __ , so two groups of __ is __ .</p> <p>There are __ altogether; half of __ is equal to __ .</p> <p>Half of __ is equal to __ . Double __ is equal to __ .</p> <p>I know that double __ is __ ; so half of __ is __ .</p>	<p>If there are two equal groups, we can use the two times table.</p> <p>If there are five equal groups, we can use the five times table.</p> <p>If there are ten equal groups, we can use the ten times table.</p> <p>If we need to double / find twice the amount, we can use the facts from the two times table.</p> <p>Doubling a whole number always gives an even number.</p> <p>If there are two equal groups, we can use doubling facts.</p> <p>When one of the factors is two, the product is double the other factor and the other factor is half the product.</p>

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2.6	<p>__ is divided into groups of __ . There are __ groups.</p> <p>__ is divided into __ groups of __ .</p> <p>__ is divided into __ groups of __ with a remainder of __ .</p> <p>__ divided into groups of __ .</p> <p>The __ represents the total number of __ .</p> <p>The __ represents the number of __ in each group.</p> <p>__ is the dividend.</p> <p>__ is the divisor.</p> <p>__ is the quotient.</p> <p>We can represent this as __ divided between __ .</p> <p>__ divided between __ is equal to __ each.</p> <p>__ tens are equal to __ , so __ divided into groups of ten is equal to __ .</p>	<p>We can skip count using the divisor to find the quotient.</p> <p>If the divisor is ten, we can use the ten times table to find the quotient.</p> <p>If the divisor is five, we can use the five times table to find the quotient.</p> <p>If the divisor is two, we can use the two times table to find the quotient.</p> <p>If the divisor is two, the quotient is half of the dividend.</p> <p>A number is divisible by two if the ones digit is even.</p> <p>A number is divisible by ten if the ones digit is zero.</p> <p>A number is divisible by five if the ones digit is five or zero.</p> <p>When the dividend is zero, the quotient is zero.</p> <p>When the dividend is equal to the divisor, the quotient is one.</p> <p>When the divisor is equal to one, the quotient is equal to the dividend.</p>

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2.7	<p>[revising from Year 2]</p> <p>__ group of __ is equal to __ .</p> <p>__ groups of __ are equal to __ .</p> <p>__ times __ is equal to __ .</p> <p>[before shortening to...]</p> <p>One __ is __ , two __ s are __ , three __ s are __ ,</p> <p>Four is double two, so __ fours is double __ twos.</p> <p>Two is half of four, so __ twos is half of __ fours.</p> <p>Eight is double four, so __ eights is double __ fours.</p> <p>Four is half of eight, so __ fours is half of __ eights.</p>	<p>For every one group of four, there are two groups of two.</p> <p>Products in the four times table are also in the two times table.</p> <p>The product of an even number and two is a product in the four times table.</p> <p>Products in the eight times table are also in the four times table.</p> <p>The product of an even number and four is a product in the eight times table.</p> <p>Products in the eight times table are also in the two times table.</p> <p>If a number is divisible by four, halving it gives an even number.</p> <p>If a number is divisible by eight, halving it twice gives an even number.</p> <p>For numbers with more than two digits: if the final two digits are divisible by four then the number is divisible by four.</p>

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2.8	<p>Six is double three, so __ sixes are double __ threes.</p> <p>Three is half of six, so __ threes are half of __ sixes.</p> <p>Nine is triple three, so __ nines is triple __ threes.</p>	<p>Products in the six times table are also in the three times table.</p> <p>The product of an even number and three is a product in the six times table.</p> <p>For every one group of nine, there are three groups of three.</p> <p>For a number to be divisible by three, the sum of the digits of the number must be divisible by three.</p> <p>For every one group of six, there are two groups of three.</p> <p>For a number to be divisible by six, the number must be divisible by both two and three.</p> <p>For a number to be divisible by nine, the sum of the digits of the number must be divisible by nine.</p>

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2.9		<p>Odd factor x odd factor = odd product. If both factors are odd, the product is odd. Odd times odd is odd.</p> <p>Even factor x odd factor = even product. Even times odd is even. and Odd factor x even factor = even product. Odd times even is even. If one factor are odd and the other factor is even, the product is even. If one of the factors is even, the product is even.</p> <p>Even factor x even factor = even product. Even times even is even.</p> <p>When both factors have the same value, the product is called a square number. Square numbers can be represented by square arrays.</p>

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2.10	<p>The product of ___ and ___ is equal to the product of ___ and ___ . [simplified to...] ___ times ___ is equal to ___ times ___ .</p> <p>___ is equal to ___ plus ___ , so ___ times ___ is equal to ___ times ___ plus ___ times ___ . ___ is equal to ___ minus ___ , so ___ times ___ is equal to ___ times ___ minus ___ times ___ .</p>	<p>The product in the multiplication equation has the same value as the dividend in the matching division equation.</p> <p>The factors in the multiplication equation have the same values as the divisor and the quotient in the matching division equation.</p> <p>factor x ? = product ? X factor = product dividend ÷ divisor = quotient</p> <p>When zero is a factor, the product is zero. We should never write a calculation where the divisor is zero. When the dividend is zero, the quotient is zero.</p>
2.11		<p>For every some group of twelve, there are two groups of six.</p> <p>A two-digit number is divisible by eleven if the digits are the same.</p> <p>For a number to be divisible by twelve, the number must be divisible by <u>both</u> three <u>and</u> four.</p>

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2.12	<p>__ is divided into groups of __. There are __ groups and a remainder of __ .</p> <p>__ is divided into groups of __ , with a remainder of __ .</p> <p>__ is divided between __ is equal to __ each, with a remainder of __ .</p> <p>The largest multiple of __ that is less than or equal to __ is __ .</p> <p>__ is a multiple of __ , so when it is divided into groups of __ there are none left over; there is no remainder.</p> <p>__ is a not multiple of __ , so when it is divided into groups of __ there are some left over; there is a remainder.</p>	<p>The remainder is always less than the divisor.</p> <p>If the dividend is a multiple of the divisor, there is no remainder.</p> <p>If the dividend is not a multiple of the divisor, there is a remainder.</p>
2.13	<p>Think of __ and make it ten times the size.</p> <p>Think of __ and multiply by ten.</p> <p>__ multiplied by ten is equal to __ .</p> <p>__ is ten times the size of __ .</p> <p>__ divided by ten is equal to __ .</p> <p>__ multiplied by one hundred is equal to __ .</p> <p>__ is one hundred times the size of __ .</p>	<p>To find ten times as many, multiply by ten.</p> <p>All multiples of ten have a ones digit of zero.</p> <p>When a number is multiplied by ten, the product is a multiple of ten.</p> <p>To multiply a whole number by ten, place a zero after the final digit of that number.</p> <p>To find the inverse of ten times as many, divide by ten.</p> <p>To divide a multiple of ten by ten, remove the zero from the ones place.</p>

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2.13 ctd		<p>To find one hundred times as many, multiply by one hundred.</p> <p>All multiples of one hundred have both a tens and a ones digit of zero.</p> <p>When a number is multiplied by one hundred, the product is a multiple of one hundred.</p> <p>To multiply a whole number by one hundred, place two zeros after the final digit of that number.</p> <p>To find the inverse of one hundred times as many, divide by one hundred.</p> <p>To divide a multiple of one hundred by one hundred, remove the two zeros (from the tens and ones places).</p> <p>Multiplying by one hundred is equivalent to multiplying by ten, and then multiplying by ten again.</p> <p>Dividing by one hundred is equivalent to dividing by ten, and then dividing by ten again.</p> <p>If one factor is made ten times the size, the product will be ten times the size.</p> <p>If the dividend is made ten times the size, the quotient will be ten times the size.</p> <p>If one factor is made one hundred times the size, the product will be one hundred times the size.</p> <p>If the dividend is made one hundred times the size, the</p>

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2.14		If there are ten or more ones, we must regroup the ones into tens and ones. If there are ten or more tens, we must regroup the tens into hundreds and tens. If there are ten or more hundreds, we must regroup the hundreds into thousands and hundreds.
2.15		If dividing the tens gives a remainder of one or more tens, we must exchange the remaining tens for ones. If dividing the hundreds gives a remainder of one or more hundreds, we must exchange the remaining hundreds for tens.

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2.16	<p>The distance around the edge of the _____ is its perimeter. The perimeter of the _____ is __ cm .</p> <p>This shape has an area of __ square units. The __ represents the __ . To find the area of a rectangle, multiply the length by the width.</p>	<p>Perimeter is measured in units of length. You can use addition to find the perimeter of a shape. The perimeter of a rectangle is equal to two times the length of the long side plus two times the length of the short side. The perimeter of a square is equal to four times the length of one of the sides. The perimeter of an equilateral triangle is equal to three times the length of one of the sides. To find the perimeter of a regular polygon, you multiply the length of one of the sides by the number of sides. If you know the perimeter of a regular polygon, you divide it by the number of sides to find the length of one of its sides. We measure area in square centimetres. We write this as "cm²". Area ÷ known side = unknown side (for a rectangle).</p>
2.17	The __ is __ times the length / mass / volume of the __ .	If two objects are the same length / mass / volume, one object is one times the length / mass / volume of the other.

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2.18	<p>If I multiply __ by two, I must divide __ by two for the product to stay the same.</p> <p>If I multiply one factor by __, I must divide the other factor by __ for the product to stay the same.</p> <p>If I multiply the dividend by __, I must multiply the divisor by __ for the quotient to stay the same.</p> <p>If I divide the dividend by __, I must divide the divisor by __ for the quotient to stay the same.</p>	<p>If I double one factor, I must halve the other factor for the product to stay the same.</p>
2.19	<p>__ times __ ones is equal to __ ones, so __ times __ tenths is equal to __ tenths.</p> <p>__ times __ ones is equal to __ ones, so __ times __ hundredths is equal to __ hundredths.</p> <p>One-tenth of __ metre (s) is __ metre (s).</p> <p>__ is one-tenth the size of __, so __ times __ is one-tenth the size of __ times __.</p> <p>__ is one-hundredth the size of __, so __ times __ is one-hundredth the size of __ times __.</p> <p>I move the digits of the number being multiplied __ places to the left until I get a whole number; then I multiply; then I move the digits of the product __ places to the right.</p> <p>If one factor is made __ times the size, the product will be __ times the size.</p>	<p>When a number is divided by ten, the digits move one place to the right.</p> <p>When a number is divided by one hundred, the digits move two places to the right.</p> <p>When a number is multiplied by zero-point-one / one tenth, the digits move one place to the right.</p> <p>When a number is multiplied by zero-point-zero-one / one hundredth, the digits move two places to the right.</p> <p>If one factor is made one-tenth times the size, the product will be one-tenth times the size.</p> <p>If one factor is made one-hundredth times the size, the product will be one-hundredth times the size.</p> <p>In short multiplication, if there is a decimal point in the number being multiplied, put a decimal point in the product; line it up with the decimal point in the number being</p>

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2.19 ctd.	<p>__ is one-tenth the size of __, so __ divided by __ is one-tenth the size of __ divided by __ .</p> <p>__ is one-hundredth the size of __, so __ divided by __ is one-hundredth the size of __ divided by __ .</p> <p>I move the digits of the dividend __ places to the left until I get a whole number; then I divide; then I move the digits of the quotient __ places to the right.</p>	<p>When a number is multiplied by a value greater than one, the product is greater than the original number.</p> <p>When a number is multiplied by a value less than one, the product is less than the original number.</p> <p>If the dividend is made one-tenth times the size, the quotient will be one-tenth times the size.</p> <p>If the dividend is made one-hundredth times the size, the quotient will be one-hundredth times the size.</p> <p>In short division, if there is a decimal point in the dividend, put a decimal point in the quotient; line it up with the decimal point in the dividend.</p>
2.20	<p>The amount of space the _____ takes up is its volume.</p> <p>The _____ has a larger / smaller volume than the _____ because it occupies more / less space.</p> <p>This shape has a volume of __ cm³.</p> <p>This layer has __ rows of cubes.</p> <p>There are __ cm³ cubes in this layer.</p> <p>This layer has a volume of __ cm³.</p> <p>There are __ layers of __ cm³.</p> <p>The volume if the cuboid is __ cm³.</p>	<p>You can measure volume in cubic centimetres. You write this as cm³.</p> <p>You can measure volume in cubic metres. You write this as m³.</p> <p>The volume of a cuboid can be found by multiplying the length by the width by the height.</p> <p>If you change the order of the factors, the product remains the same.</p> <p>When you multiply three numbers, the product will be the same whichever pair we multiply first.</p>

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2.21	<p>There are __ tiles. There are __ rows and __ columns. So __ and __ are factors of __ .</p> <p>__ is a factor of __ because __ is in the __ times table.</p> <p>__ is a factor of __ because __ x __ = __</p> <p>__ is a multiple of __ because __ x __ = __</p> <p>__ is a factor of __ because __ ÷ __ = __</p> <p>__ is a multiple of __ because __ ÷ __ = __</p>	<p>“1” is a factor of all positive integers.</p> <p>Every positive integer is a factor of itself.</p> <p>The smallest factor of a positive integer is always “1”.</p> <p>The largest factor of a positive integer is always itself.</p> <p>Numbers that have more than two factors are composite numbers.</p> <p>Numbers that have exactly two factors are called prime numbers.</p>
2.22		<p>When there are no brackets, multiplication is completed before addition and subtraction.</p>

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2.23		<p>To multiply multiples of ten, one hundred or one thousand, remove the zeros, find the product of the single-digit numbers and then replace the zeros.</p> <p>To multiply by a multiple of ten, use short multiplication by a single-digit number and then multiply by ten.</p> <p>To multiply by a multiple of one hundred, use short multiplication by a single-digit number and then multiply by one hundred.</p> <p>To multiply by a multiple of one thousand, use short multiplication by a single-digit number and then multiply by one thousand.</p> <p>To multiply two two-digit numbers, first multiply by the ones, then multiply by the tens, and then add them together.</p> <p>To multiply a three-digit number by a two-digit number, first multiply by the ones, then multiply by the tens, and then add them together.</p> <p>When multiplying, you can write a composite number as factor x factor and use the associative law to make the calculation more efficient.</p>

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2.24		
2.25	<p>If I multiply one factor by __ , I must multiply the product by __ .</p> <p>If I divide one factor by __ , I must divide the product by __ .</p> <p>If I multiply the dividend by __ and keep the divisor the same, I must multiply the quotient by __ .</p> <p>If I divide the dividend by __ and keep the divisor the same, I must divide the quotient by __ .</p>	<p>If I double one factor, I must double the product.</p> <p>If I multiply one factor by two, I must multiply the product by two.</p> <p>If I halve one factor, I must halve the product.</p> <p>If I divide one factor by two, I must divide the product by two.</p> <p>If a factor increases multiplicatively, the change to the product is the same.</p> <p>If a factor decreases multiplicatively, the change to the product is the same.</p> <p>If I double one factor, I must double the product.</p> <p>If I halve one factor, I must halve the product.</p> <p>If I double the dividend and keep the divisor the same, I must double the quotient.</p> <p>If I multiply the dividend by two and keep the divisor the same, I must multiply the quotient by two.</p> <p>If I halve the dividend and keep the divisor the same, I must halve the quotient.</p> <p>If I divide the dividend by two and keep the divisor the same, I must divide the quotient by two.</p>

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2.25 ctd.	<p>If I multiply the divisor by ___ and keep the dividend the same, I must divide the quotient by ___ .</p> <p>If I divide the divisor by ___ and keep the dividend the same, I must multiply the quotient by ___ .</p>	<p>If I double the divisor and keep the dividend the same, I must halve the quotient.</p> <p>If I multiply the divisor by two and keep the dividend the same, I must divide the quotient by two.</p> <p>If I halve the divisor and keep the dividend the same, I must double the quotient.</p> <p>If I divide the divisor by two and keep the dividend the same, I must multiply the quotient by two.</p>
2.26	<p>The ___ represents the ___ .</p> <p>The dividend is ___.</p> <p>The divisor is ___ because _____ .</p> <p>The mean is $_ \div _ = _$.</p>	<p>The mean is the size of each part when a quantity is shared equally.</p> <p>The mean is the total of the numbers divided by how many numbers there are.</p> <p>If the number of values in the set stays the same and the total increases, the mean also increases.</p> <p>If the number of values in the set stays the same and the total decreases, the mean also decreases.</p>

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2.27	<p>For every __ _____ , there are __ _____ .</p> <p>The length of one of the sides of the square is __ times the length of one of square __ .</p> <p>The side-length of a square __ is __ times the side-length of square __ .</p> <p>To change shape __ into shape __ , scale the side-lengths by a scale factor of __ .</p> <p>The ratio of the dimensions of shape __ to the dimensions of shape __ is equal to __ -to- __ .</p> <p>To change shape __ into shape __ , scale the dimensions by a scale factor of __ .</p>	<p>If the scale factor is greater than one, the shape is made larger. We can say the shape is enlarged.</p> <p>If the scale factor is one, the shape is the same size.</p> <p>If the scale factor is less than one, the shape is made smaller. We can say the shape is reduced.</p>
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2.28		<p>When there are no brackets, division is completed before addition and subtraction.</p> <p>When two dividends are divided by the same divisor, we can add the dividends first and then divide.</p> <p>When two dividends are divided by the same divisor, we can subtract the dividends first and then divide.</p>
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2.29		<p>When a number is multiplied by one thousand, the digits move three places to the left.</p> <p>When a number is divided by one thousand, the digits move three places to the right.</p> <p>Dividing by one thousand is equivalent to multiplying by one thousandth.</p> <p>When a number is multiplied by 0.001/one thousandth, the digits move three places to the right.</p>
2.30	<p>A _____ is a parallelogram because _____ .</p> <p>The base is ____ .</p> <p>The perpendicular height is ____ .</p> <p>The area is ____ .</p> <p>The area is ____ square units.</p>	<p>A parallelogram is a quadrilateral with opposite sides that are parallel and equal in length.</p> <p>A parallelogram can be made into a rectangle that has the same area.</p> <p>To find the area of a parallelogram multiply the base by the perpendicular height.</p> <p>A triangle is a 2D shape with three sides and three angles. It can be classified by the length of its sides and the sizes of its angles.</p> <p>We can count squares to find the area of a triangle.</p> <p>Two right-angled triangles that are the same can be joined to make a rectangle.</p>

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2.30 ctd.	The distance around the edge of the _____ is its perimeter.	Two triangles that are the same can be joined to make a parallelogram. A parallelogram can be divided into two triangles. To find the area of a triangle multiply the base by the perpendicular height and then divide by two. Shapes can have the same perimeter but different areas. Shapes can have the same areas but different perimeters. When a shape has been transformed by a scale factor, the perimeter is also transformed by the same scale factor.