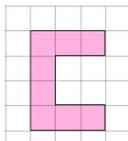
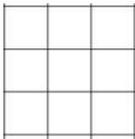




## Year 4: Mathematical Vocabulary

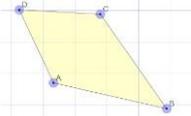
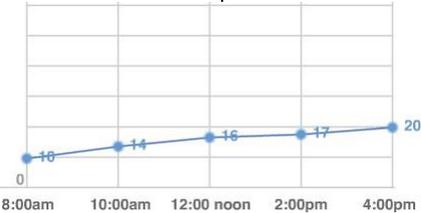
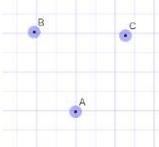


Year 4	Definition	Example
Area	The space a surface takes up inside its perimeter. Area is always measured in square units.	 <p>The <b>area</b> is 8 square units.</p>
Associative law	No matter how the parts in an addition or multiplication equation are grouped, the answer will be the same.	$(6 + 3) + 2 = 11$ $6 + (3 + 2) = 11$ Addition and multiplication are <b>associative</b> . Subtraction and division are not.
Convert	To change from one unit of measurement to another.	2 km can be <b>converted</b> to metres – it is equal to 2000 m.
Coordinate	The position of a point, usually described using pairs of numbers. Sometimes called Cartesian coordinates, after the mathematician Rene Descartes.	The <b>coordinate</b> (3,4) describes a point that is 3 on the x axis and 4 on the y axis.
Decimal fraction	A fraction expressed in its decimal form.	Half written as a decimal fraction is 0.5.
Distributive law	The process whereby adding some numbers and then multiplying the sum gives the same answer as multiplying the numbers separately and then adding the products.	$3 \times (2 + 4) = (3 \times 2) + (3 \times 4)$ $3 \times 12 = (3 \times 10) + (3 \times 2)$
Dividend	The amount that you want to divide.	In ' $12 \div 3 = 4$ ', 12 is the <b>dividend</b> .
Divisor	The number you divide by.	In ' $12 \div 3 = 4$ ', 3 is the <b>divisor</b> .
Equilateral	Having all sides the same length.	An <b>equilateral</b> triangle has three equal sides.
Expression	One or a group of numbers, symbols or operators. An expression does not use equality or inequality signs. <i>Using an equality or inequality sign will give an equation.</i>	$2 \times 3$ $4^2$
Grid	A series of evenly divided and equally spaced shapes, usually squares.	
Improper fraction	A fraction where the numerator is bigger than the denominator. These fractions are therefore greater than one whole.	$\frac{12}{11}$



## Year 4: Mathematical Vocabulary



Integer	A whole number that can be positive or negative.	6 is an integer, 0.6 is not.
Interval	An interval on a graph's axis lies between two values.	If one point on an axis is 50 and the next 60, the <b>interval</b> is 10.
Isosceles	Having two sides of equal length. Isosceles triangles have two equal sides; isosceles trapezia have two equal, non-parallel sides.	
Kite	A 2-D shape with two pairs of equal length adjacent sides. The diagonals intersect at right angles.	
Line graph	A graph that uses lines to connect the points on a data chart. Used to present continuous data, such as change over time.	<div style="border: 1px solid black; padding: 5px; display: inline-block; margin-bottom: 10px;">Temperature graph</div> 
Mixed numbers	Numbers consisting of an integer and fractional part.	$1\frac{1}{2}$ ; $3\frac{3}{4}$
Negative number	A number that is less than zero. (It is helpful to refer to these numbers as 'negative numbers' rather than 'minus' to avoid confusion with the operation 'minus'.)	-1, -24, -0.5 etc.
Parallelogram	A 2-D shape that has two pairs of parallel sides and equal opposite angles.	
Plot	To mark out a point on a graph or grid.	' <b>Plot</b> the point (3,6)' means to draw the precise location of that point, usually shown as a dot or a small cross.
Point	The precise location of a position on a 2-D plane.	An exact place on a graph or on squared paper. A <b>point</b> is often represented by a capital letter. 



## Year 4: Mathematical Vocabulary



Positive number	A number that is greater than zero. Zero is neither positive or negative.	3, 32, 0.5
Proper fraction	A fraction with a value less than one.	$\frac{1}{2}$ , $\frac{3}{4}$ , $\frac{5}{8}$
Protractor	A measuring device for measuring the size of an angle. Angles are measured in degrees (°).	
Quotient	The result when the dividend is divided by the divisor.	$15 \div 3 = 5$ 5 is the <b>quotient</b> .
Rectilinear	A rectilinear shape has straight line edges which are perpendicular (all meet at right angles).	A rectangle. A straight-sided shape that can be divided up into other rectangles. 
Rhombus	An equilateral parallelogram with four equal length sides.	
Scalene	A scalene triangle has three unequal sides and three unequal angles.	
Short division	A formal written layout where the quotient is calculated showing only one written step.	$\begin{array}{r} 77 \\ 5 \overline{) 385} \end{array}$
Short multiplication	A formal written layout where the multiplier is usually 9 or less.	$\begin{array}{r} 782 \\ \times 9 \\ \hline 7038 \end{array}$
Simplify	To write a number or equation in its simplest form.	I can <b>simplify</b> $\frac{8}{10}$ to $\frac{4}{5}$ .
Square centimetre	A unit of measure for area equal to a square with the dimensions 1 cm by 1cm.	Sometimes referred to as centimetre squared, abbreviated to <b>cm<sup>2</sup></b> .
Trapezium	A quadrilateral with exactly one pair of parallel sides.	