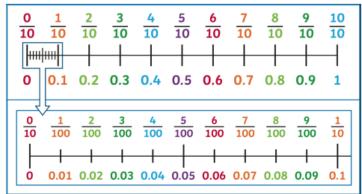
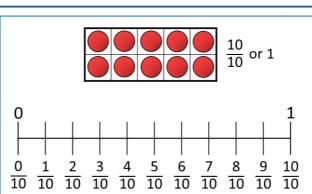
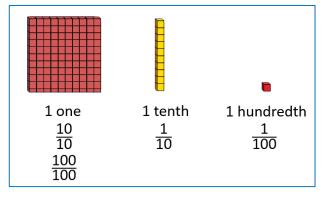


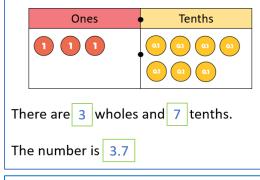


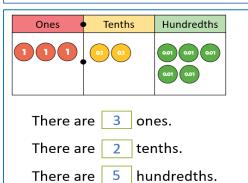
Year 4 Decimals A and Decimals B (Part 1)











The number represented is 3.25

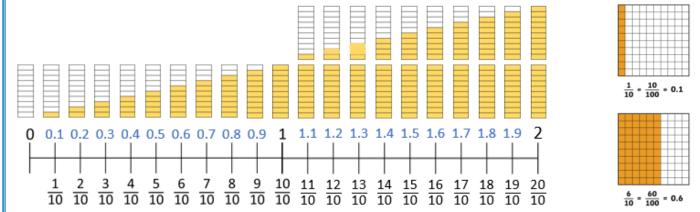
Vocabulary Whole hundredths

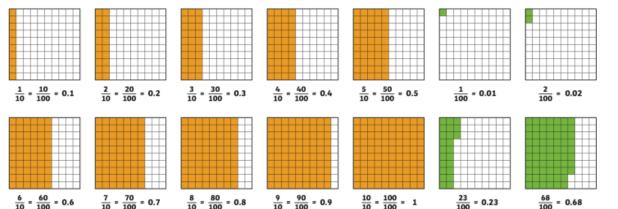
tenths decimal partition equal part whole number halves quarter three quarters value zero place holder digits greater than less than smaller place value column

equivalent

rounding









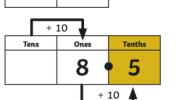


10

÷

Year 4 Decimals A and Decimals B (Part 2)

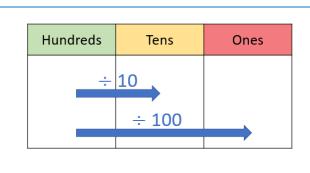




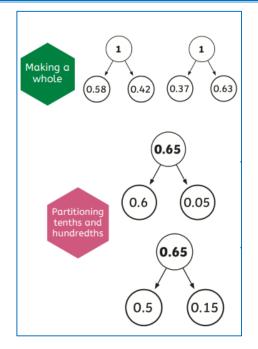
5

Tens	Ones		
8	5	÷	100

		÷ 100	—	
Te	ns	Ones	Tenths	Hundredths
		0	• 8	5
			÷ 100	A



When dividing a number by 100, move all the digits two places to the right .



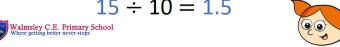
Rounding decimals

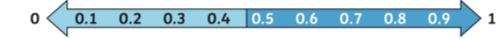
Alex uses the Gattegno chart to divide a different 2-digit number by 10 Here is her answer.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9

What was her original number?

$$15 \div 10 = 1.5$$

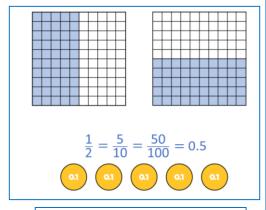


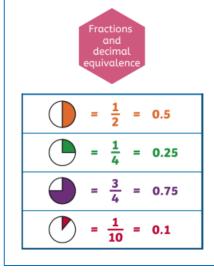


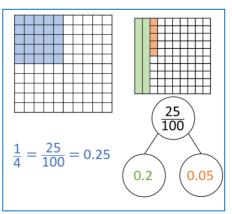
If the tenths digit is 1, 2, 3 or 4, we round down to the nearest whole number.

If the tenths digit is 5, 6, 7, 8 or 9, we round up to the nearest whole number.

5. Round to the nearest ten pence			
£3.88	Rounds to	£3.90	
£0.72	Rounds to	£0.70	
Round to the nearest pound (
£15.72	Rounds to	£16.00	
£784.39	Rounds to	£784.00	



















£5 five pound note

£10 ten pound note

£20 twenty pound note

£50 fifty pound note





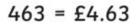












705p = £7.05

92p = £0.92

£3 and 25 pence

£3.25

£52 and 13 pence

£52.13

We can compare or order amounts by changing all amounts to either pounds or pence.

£4.82 428p £4.82 = 482p

482p > 428p £4.82 > 428p Order in ascending order:

516p 156p £1.65 £6.51

£1.65 = 165p and £6.51 = 651p

156p, £1.65, 516p, £6.51

Year 4 Money

What do these words mean?

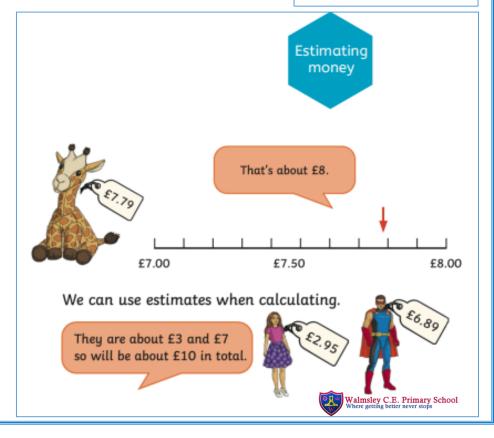
Ascending → Smallest to greatest

Descending → Greatest to smallest



Vocabulary

pounds pence compare estimate partition value approximately ascending descending





60 seconds	=	1 minute
60 minutes	=	1 hour
24 hours	=	1 day
7 days	=	1 week
4 weeks	=	1 month
12 months	=	1 year
10 years	=	1 decade
100 years	=	1 century
1,000 years	=	1 millenium

Number of Month days 31 January **February** 28 or 29 31 March 30 April 31 May June 30 31 July 31 August September 30 October 31 November 30 31 December

Year 4 There are 24 hours in a day.

Time

24-hour

time



years leap year months weeks days fortnight minutes seconds hours morning am afternoon pm duration analogue digital 24 hour noon midnight earlier later

Vocabulary





60 seconds in an minute.



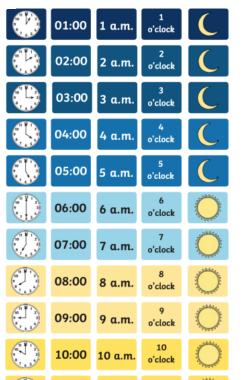
There are 24 hours in a day



There are 12 months

in a year.

30 days has September, April, June and November, All the rest have 31 Except February, 28 days here Or 29 in each leap year.



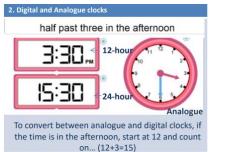
11:00 11 a.m.

12:00 12 p.m.

























Angles

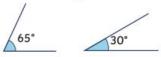
Right angle

The intersection of perpendicular lines creates a right angle.



Acute angle

Any angle measuring more than 0 degrees and less than 90 degrees is acute.



Obtuse angle

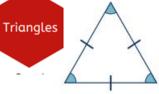
Any angle measuring more than 90 degrees but less than 180 degrees is obtuse.



Patterns and shapes can be reflected in a mirror line.

Mirror lines can be vertical, horizintal or diagonal.

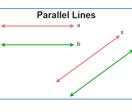
Triangles have 3 sides and 3 vertices. The total of the angles in a triangle is 180°.



An equilateral triangle is a regular polygon. It has sides of equal length and each angle is 60°.

Year 4 Shape

Quadrilaterals



An isosceles triangle has two sides of equal length and two angles of equal size.



A right-angled triangle always has one 90° angle.

It can be isosceles or scalene.

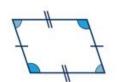


A scalene triangle has no equal sides or angles.

A quadrilateral is a polygon with four sides.



A square has four sides of equal length and four right angles (90°). A square is also a rectangle, a rhombus and a parallelogram.



A parallelogram has two pairs of parallel, equal sides and opposite equal angles.

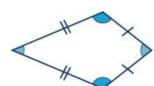
A trapezium only has one pair of

4 sides

Quadrilateral

opposite parallel sides.

3 sides



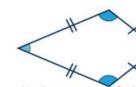
A kite has two pairs of adjacent



A rectangle has two pairs of parallel, equal sides and four right angles. A rectangle is also a parallelogram.



A rhombus has four sides of equal length and opposite equal angles. A rhombus is also a parallelogram.



equal sides and one pair of opposite equal angles.

A square has four lines of symmetry.



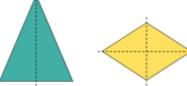
A rectangle has two lines of symmetry.



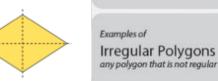
An equilateral triangle has three lines of symmetry.



An isosceles triangle has one line of symmetry.

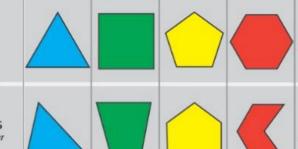


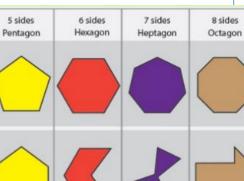
A rhombus has two lines of symmetry.

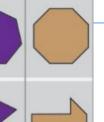


or more sides. Triangle Regular Polygons all sides are equal length and all internal angles are equal

A polygon can have three









Vocabulary

Anale

turn clockwise

anti-clockwise

full/half/quarter

acute obtuse

right angle

triangle

rectangle

square

pentagon

hexagon

octagon

equilateral

isosceles

scalene polygon

regular

irregular quadrilateral

parallel sides

perimeter

line of symmetry

symmetrical horizontal vertical mirror line

vertex

vertices





Data that is counted in whole numbers is discrete. In discrete data, values between whale numbers cannot be counted. Data that is measured and therefore can take an infinite values is continous. In cantinuous data, values between whole numbers can be counted.



Tally marks are used to help count things. Each vertical line represents one unit. The fifth tally mark goes across the first four to make it easier to count.

The frequency column is completed after all the data has been collected.

Eye Colour	Tally	Frequency
brown	##1	6
blue	## 111	8
green		3
grey		4
hazel	##	5



Year 4 **Statistics**

.5



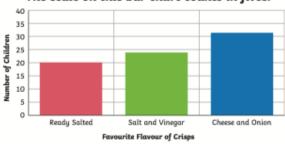
A Line Graph to Show the Average Monthly Temperature in the Borneo Rainforest

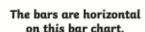
Month

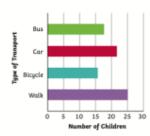
A bar chart has a horizontal axis and a vertical axis. Bars are used to show the data of each category. There must be a gap between each bar.

The scale of the bar chart is based on the range of data.

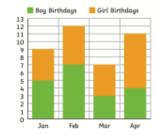
The scale on this bar chart counts in fives.

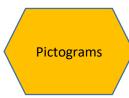






Two sets of data are shown on this stacked bar chart.





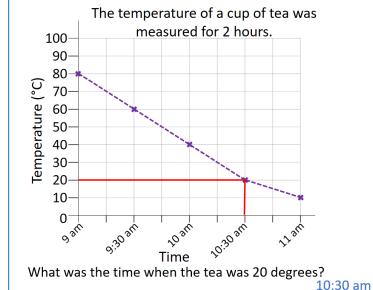




April

data sum scale difference bar chart line graph represent horizontal axis vertical axis pictogram symbol value

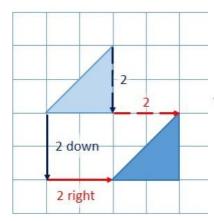
Vocabulary





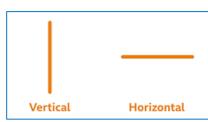
Tr



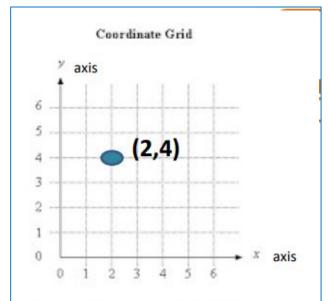


Points can be translated up, down, left and right





Year 4Position and Direction



Remember, when plotting points, we use the x-axis first, then y-axis!

To help you remember which point to read or write first, simply

Coordinates

origin

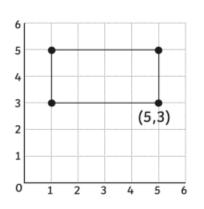
remember to move 'along the corridor and up the stairs.'

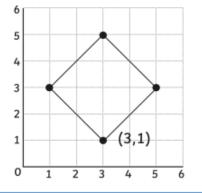
In other words, move on the x-axis and then move on the y-axis.





Each vertex (corner) of a 2D polygon can be represented as a co-ordinate on a 2D grid.





Vocabulary

Position direction coordinates point 2D shapes (triangles square rectangle pentagon hexagon octagon) translate translation up down left right vertex vertices horizontal vertical x axis y axis polygon

