Oxford Vocabulary Framework for Maths

You can find this framework and further support, including the Talk for Maths Benchmarks, on the Oxford University Press website here.







About the Oxford Vocabulary Framework

Oxford University Press (OUP) has long been investigating the effect of a language deficit on children's education and the negative impact this can have on their life chances. As the creators of the Oxford Children's Corpus (OCC)—the largest living database of children's reading and writing in English, with over ½ billion words—a team at OUP set out on a data-driven research journey to understand when and how often children are exposed to different types of vocabulary as part of their education, from early years foundation stage to Key stage 3, ages 5–14. After reviewing the insights that this provided, OUP created a progressive framework of vocabulary: the Oxford Vocabulary Framework (OVF).

The OVF presents a list of words that children are expected to encounter in their reading and writing and general classroom discussions as they progress through the first 10 years of their school life, from primary to secondary (Reception to Year 9, at the end of Key stage 3). Based on frequency analysis, OUP's expertise in children's language research, and feedback from educational experts, the progression in the OVF ensures more common words appear in the younger years and progress in difficulty as children move up the school years with more challenging words featuring in later year groups. The OVF sets out to highlight those words that—according to the data—are most commonly used or encountered and which have the most utility across different subject areas.

Using the Oxford Vocabulary Framework, recent analysis of the 2023 KS3 English and Maths SATs papers have again highlighted the importance of ensuring a solid understanding of Tier 2 words:

- 31% of the KS2 Reading paper and Reading Answer booklet were made up of Tier 2 words
- Tier 2 words made up 25–27% of the language used in Maths papers
- Examples of these words include: appropriate, decide, compare, complete, estimate.
- If children do not have a solid foundation of these Tier 2 words, they will struggle to access, let alone answer, the question.
- This carries right on up to KS4. Analysis of 2022 GCSE AQA English Language and Maths papers showed between 34-40% of the language used was Tier 2 vocabulary.

The following presents a list of words from the OVF that are specific to maths, from Reception to Year 6, according to their maths strand and year group. The words are accompanied by age-appropriate definitions, taken from the suite of Oxford Children's Dictionaries.

We hope you will find it useful.



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Number

RECEPTION

1 less/1 less than 1 more/1 more than big/bigger/biggest count (up/down) from/to count/counting count back (from, to) count in ones count on (from, to)

count out difference (between) double/doubling doubles

equal(s) equal amounts/shares even few/fewer/fewest first, second... tenth

five, 5

less

few/fewest

four, 4 great/greater/greatest high/higher/highest how many...? large/larger/largest

more none number number bond number cards

number line number square number track odd

part(s) pattern(s) repeating pattern(s)

same/same as number facts ten, twenty... one hundred ten less/more the same number as

one, 1

one, two, three... twenty

YEAR 1

amount bigger/smaller count on/back/in equal to equivalent to

figure great/greater/greatest greater than how many (more)...? is the same value as

least most odd/even one hundred ones, twos, fives, tens order/in order

pair seauence smallest

three, 3

two, 2

zero

YEAR 2

even

1-digit number 2-digit number digit predict

quantity set tally tens

turn units value

YEAR 3

3-digit number factor (of) fifties

number names to 1000 one thousand Roman numerals

YEAR 4

4-digit number classify consecutive decimal decimal number decimal place decimal point horizontal hundredths increasing/decreasing integer magnitude negative numbers number range

positive numbers ten thousand tenths whole number

YEAR 5

5-digit number(s) cubed cubed number

divisible/divisibility factor pair formula

hundred thousand one million prime number squared

square number \leq less than or equal to ≥ greater than or equal to

YEAR 6

OXFORD

digit total prime factorise prime factor figures zero

OXFORD VOCABULARY FRAMEWORK FOR MATHS

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Place Value & Order

RECEPTION

after as many as backwards between decrease digit

first forwards increase last next ones

order partition parts of a number size

ten(s)

YEAR 1

after as many as base 10 before compare fewer greater/greatest halfway hundred square larger/largest number(s) number line part part-whole model

partition smaller/smallest total unit(s)

whole

YEAR 2

column decrease halfway between higher hundreds

hundred less/more increase interval(s) lower multiples of (ten)

ones column partition pattern placeholder place value

position recombine tens column twenty-first twenty-second

YEAR 3

arrange arrangement ascending

descending midpoint one hundred less/more pattern thousand(s)

YEAR 4

4-digit number classify consecutive decimal decimal number

decimal place decimal point horizontal hundredths increasing/decreasing integer magnitude minus negative numbers number range

positive numbers ten thousand tenths whole number

YEAR 5

hundred thousand part-whole relationship power(s) of 10 ten times

thousandths column thousand times

YEAR 6

hundred thousand column millions column one million

scale interval ten million ten thousand column

zero

Addition & Subtraction

RECEPTION

add adding adding more addition altogether and

double how many fewer is... than...? how many left/left over? how many more is... than...? how many more to make...? make

minus more one/two/ten less one/two/ten more plus subtract

subtraction subtracting sum take (away) taking away total

YEAR 1

add(ed) addition altogether calculation combine/combination

difference (between) equals fact family half/halve how many...?

minus missing number near doubles number bonds/pairs number sentence

plus subtract/subtracting subtraction take away total

YEAR 2

adding sentence/story balances/balancing column(s) count back

in total inverse larger multiple number facts numeral part-whole model row

smaller sum whole tens

YEAR 3

balances/balancing bar model column addition/subtraction complete error function machine number trio part-whole model partition/partitioning rearrange regroup related facts

YEAR 4

column method/calculation complements

not equal to regrouping

rounding zero as a place holder

YEAR 5

bridging

efficient writing method

integers

inverse relationship quantity value

tenths boundary units boundary

YEAR 6

above/below zero brackets negative

order of operations positive

Multiplication & Division

RECEPTION

double each equal fair share group half left over share (out) sharing

YEAR 1

array balances columns/rows count in tens division/divided by double/doubling/doubled equal groups group/groups of

group/groups of halving left/left over lots of multiple multiplication multiplied by once, twice, three/five times repeated addition sharing

YEAR 2

altogether balances combinations divide

divide inverse each left over equal/unequal lots of... equation multiplic

equivalent group (equally/between) groups of inverse left over lots of... multiplication table part product scale up set share (equally/between) signs/symbols

split (equally/between)

times times table total twice as big/small as

YEAR 3

bar model compact method divided equally divisor

equal/unequal parts fact family grouped equally half/double the size how many times bigger/smaller? part-whole model partition quarter/quartering regroup/regrouping remain/remains/remaining remainder scaling up/down

YEAR 4

... times bigger/smaller common multiples derive divisible by... factor pair fraction hundred square lowest common multiple multiples ratio related facts square/squared times table square triple

YEAR 5

area model common factors common multiple composite number cube number decimal dividend divisibility formal written method highest common factor long multiplication one thousandth prime factors prime number quotient short division square number

YEAR 6

brackets decimal point factor tree long division operations order of operations power of 10 powers prime factorisation repeated subtraction

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Estimating

RECEPTION

close to enough/not enough estimate guess how many...? just under/over many nearly too many/few

YEAR

close to estimate

further away guess how many just over just under too few too many

YEAR 2

about almost greater than halfway between less than nearer to round to the nearest ten round up/down

YEAR 3

approximate(ly) order

YEAR 4

accurately approximation estimation multiple (of) place value column round amounts round numbers round to the nearest... significant digit

YEAR 5

decimal (place) round to one decimal place round to the nearest whole number

Probability

YEAR 5

certain chance doubt fair good chance impossible likelihood likely no chance poor chance possible probable

uncertain unfair unlikely

YEAR 6

biased equal chance

equally likely even chance

fifty-fifty chance random

Reason

YEAR 1

agree disagree every other growing pattern incorrect mental/mentally number sentence odd one out

predict put in order recognise repeating

pattern sign strategy unequal

YEAR 2

calculate/calculation complete/completing cycle describe the pattern

describe the rule

first I need to... I know this, so I know/ predict/think that... it could (not) be... because...

link/linked mental calculation missing order prove

repeat/repeating rule(s) symbol then I need to... written calculation

YEAR 3

category collection consecutive terms eliminate

equation greatest value if... then... in that case...

it will/won't work because... least value reasoning related (facts)

statement system unknown number

YEAR 4

commutative convince general rule/statement

justify prove solve

true/false

YEAR 5

cancels out conclusion logic

proof sequence summarise

trial and improvement

YEAR 6

algebra algebraic expression finite formula/formulae global rule

infinite notation nth term

simplify substitute variable

Money

RECEPTION

amount buy/bought change cheap cheaper

coin(s) cost costs less costs more costs the same as money pay pence penny pound(s)

price sell spend

YEAR 1

amount change cheap(er)

exchange how much...? note

pay pound(s) spend/spent total value worth

YEAR 2

fewer rounding

YEAR 3

afford budget less/least expensive

more/most expensive sum

YEAR 4

half-price sale unit of measure

YEAR 5

best value currency discount dollar

euro exchange rate loss overheads

profit takings

YEAR 6

bank account bill deposit discounted price

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gross pay income tax mortgage original price salary tax

Geometry

RECEPTION

2D 3D circle(s) cone corner(s) cube cuboid curved cylinder

direction edge face(s) flat length lines middle properties of shapes

pyramid

rectangle(s) round shape(s) side solid sphere square(s) star straight

surface symmetrical symmetry triangle wide

YEAR 1

2D shape(s) 3D shape(s) anticlockwise centre clockwise cone corner(s) cube cuboid cylinder

direction edge face flat hollow identical left longer oblong point/pointed position quarter/half/ three-quarter/full turn rectangle right shorter side size solid sphere

square square corners straight (line) surface symmetry/symmetrical

tube

YEAR 2

angle anticlockwise arrow circular clockwise curved surface diagonal

half hexagon horizontal line of symmetry matching/identical/same mirror image mirror line

ninety degree turn octagon pentagon prism rectangular reflect/reflection right angle

rotate/rotating/rotation semicircle square prism straight line triangular vertex/vertices vertical

YEAR 3

acute

attribute centimetre compass point east grid reference hemi-sphere heptagon hexagon hexagonal

intersect/intersection

irregular kite layer millimetre nets north obtuse octagon octagonal orientation parallel

parallel lines parallelogram pentagon pentagonal perimeter perpendicular quadrilateral regular rhombus right-angled row

set south square-based pyramid trapezium tree diagram triangular prism venn diagram west

YEAR 4

area asymmetry axis/axes base boundary compasses concave concave kite convex coordinate grid coordinates

cylindrical decagon degree(s) diameter dodecagon equilateral triangle gridline irregular quadrilateral isosceles triangle line symmetry midpoint

north-east north-west pair of coordinates radius right-angled triangle rim scalene triangle set square south-east south-west spherical

square-based tessellate/tessellation tetrahedron three-dimensional translate/translation x/y axis x/y direction x/y value/coordinate

YEAR 5

angles around a point angles on a straight line asymmetric axis of symmetry composite compound shape

dimensions enlarge equidistant exterior interior magnitude octahedron

proportion protractor quadrant ratio reflective symmetery reflex angle regular/irregular polygon

scale factor scale of 1 to... transform/transformation triangular-based pyramid

scale drawing

YEAR 6

altitude arc bisect breadth circumference concentric conservation of area

constant diameter dissect dissection formula height icosahedron

intersecting pi plane platonic solid point of intersection radius reflex

regular polyhedron square inch/mile/millimetre surface area units of area vertically opposite angles volume

Data

RECEPTION

sort sorting

YEAR 1

list set sort table vote

YEAR 2

bar chart block graph/diagram category graph

interpret key label pictogram tally chart title

YEAR 3

axis/axes Carroll diagram columns

diagram frequency frequency table representation

Venn diagram

YEAR 4

continuous data grouped data interval line graph

plot point range spread

YEAR 5

average bar line chart classify continuous cumulative

database discrete

maximum/minimum value mode percentage

pie chart population proportion running total sample

score summarise two-way table vertical/horizontal axis

YEAR 6

central data set distribution dual bar chart

error mean median mode

outlier sample size skewing statistician

statistics variation

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Measurement

RECEPTION

balance(s) capacity close compare deep empty enough/not enough estimate

high/highest hollow just over/under liaht long/longer/longest low/lowest mass measure

full/half full

heavy

narrow near/nearly quick(ly) scales shallow short/shorter/shortest size slow

small

tall

thick/thicker/thickest thin/thinner/thinest too many/too few too much/too little weigh(s) weight wide

YEAR 1

far

fast

accurate balance(s) capacity contain(s) container depth distance

half/quarter full heavier/heaviest height higher/highest length lesser/least lighter/lightest

low mass measurement narrow non-standard unit of measure ruler scale

shorter/shortest taller/tallest unit (of measure) volume weigh(s)/weighing wide/wider/widest

width

YEAR 2

approximate capacity centimetre cold/colder/coldest degrees (celsius) distance exact

further/furthest gram graph half kilogram half litre kilogram litre

mass measuring (jug/scale) metre millilitre standard unit of measure

tape measure

temperature

thermometer warm/warmer/warmest weight(s)

YEAR 3

approximately centigrade conversion/convert distance from/to

equivalent interval(s) kilometre mile

millimetre partition perimeter quantity

YEAR 4

array breadth convert edge equivalence measuring cylinder metric unit per pint

rate side length speed square centimetre square kilometre

square metre square millimetre surface underweight vessel

YEAR 5

constant rate cubic centimetre displace foot gallon

imperial gallon imperial units inch metric ounce

pound (lb) stone ton/tonne volume yard

precision

YEAR 6

approximately equal base centilitre circumference compasses

cubic metres diameter equation formula layer

one dimensional part square perpendicular height pi

radius ratio three dimensional two dimensional variation

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Time

RECEPTION

hands afternoon afterwards hour last before late/later clock Monday day morning during early next evening night Friday now

o'clock Saturday soon Sunday takes less time takes longer then

Thursday

time

today tomorrow Tuesday watch Wednesday week yesterday

YEAR 1

always April August Autumn calendar date December earlier faster/fastest February finally Friday half past hour(s)

hour/minute/second hand(s) January July June later March May midnight minute(s) Monday month(s)

never new/newer/newest November

now October often old/older/oldest once o'clock

quarter past/to quick/quicker/quickest Saturday seasons second(s) September slow/slower/slowest sometimes

Spring stopwatch Summer Sunday Thursday Tuesday twice Wednesday week

weekend Winter year

YEAR 2

analogue digital earliest fortnight half past

latest midday midnight minutes past/to noon

o'clock quarter past quarter to time difference

YEAR 3

12 hours 24 hours a.m/p.m anticlockwise arabic numerals century

leap year roman numerals timetable

YEAR 4

centuries decades millenium period

previous subsequent timeline

YEAR 6

annual **British Summer Time** Greenwich Mean Time International Date Line

Fractions & Ratio

RECEPTION

fair share group

halve/halving

parts/parts of a whole share (out)

sharing whole

YEAR 1

double equal parts fraction

grouping half/halves quarter(s)

sharing three quarters

YEAR 2

denominator divide equivalent/equivalence

factor mixed number non-unit

one third third

two quarters two thirds unit

YEAR 3

complements decimals eighths fifths

integer ninths non-unit fraction remainder

sevenths sixths tenths unit fraction

YEAR 4

cancel common fraction decimal place decimal point

equate hundredths proportion

thousandths twentieth

YEAR 5

equivalence improper mixed numbers percentage/percent/%

proportion ratio reduced to twelfth

YEAR 6

integer multiplication missing value relative size scale factor simplify

General

RECEPTION

above across around behind below beside between

in front of inside near next to on/on top of bottom opposite compare outside down over set every

first, second, third... twentieth front

> under/underneath up

> > upside down

sideways

through

towards

sort

top

YEAR 1

arrange digit cards hundred square number square right ten frame

YEAR 2

investigate method number grid number pairs operation(s) predict

represent sign tally

YEAR 3

diagram input output

YEAR 4

convention general rule number range properties

YEAR 5

area model general

matching specific

YEAR 6

algebra formula function identical jotting known values linear sequence substitute

symbol typical vary variables

Reception

NUMBER

1 less/1 less than 1 more/1 more than big/bigger/biggest count (up/down) from/to count/counting count back (from, to) count in ones

count on (from, to) count out difference (between) double/doubling

doubles equal(s) equal amounts/shares even few/fewer/fewest

first, second... tenth five, 5 four, 4

great/greater/greatest high/higher/highest how many...? large/larger/largest

less more none number number bond number cards number facts number line number square

number track

odd

one, 1

pair(s) part(s) pattern(s) repeating pattern(s) same/same as ten, twenty... one hundred ten less/more the same number as three, 3 two, 2

one, two, three... twenty

PLACE VALUE & ORDER

after digit as many as backwards forwards between increase last decrease

next ones order partition parts of a number

size ten(s)

zero

ADDITION & SUBTRACTION

add adding adding more addition altogether and

double how many fewer is... than...? how many left/left over? how many more is... than...? how many more to make...? make

minus more one/two/ten less one/two/ten more plus subtract

subtraction subtracting sum take (away) taking away total

MULTIPLICATION & DIVISION

each equal fair share group

left over share (out) sharing

ESTIMATING

close to enough/not enough estimate

guess how many...? just under/over many nearly too many/few

MONEY

amount buy/bought change cheap cheaper

coin(s) cost costs less costs more costs the same as

money pay pence penny pound(s)

price sell spend

2D 3D circle(s) cone corner(s) cube cuboid curved

direction edge face(s) flat length lines middle

properties of shapes

pyramid

rectangle(s) round shape(s) side solid sphere square(s) star straight

narrow

quick(ly)

near/nearly

surface symmetrical symmetry triangle wide

DATA

cylinder

sort sorting

MEASUREMENT

balance(s) capacity close compare deep empty enough/not enough estimate

full/half full heavy high/highest hollow just over/under light long/longer/longest

mass

hands

scales shallow short/shorter/ shortest low/lowest size slow measure small

thick/thicker/thickest thin/thinner/thinest too many/too few too much/too little weigh(s) weight wide

TIME

afternoon

far

fast

afterwards before clock day during early evening Friday

hour last late/later Monday morning next night now

o'clock Saturday soon Sunday takes less time takes longer then Thursday

time

tomorrow Tuesday watch Wednesday week yesterday

today

FRACTIONS & RATIO

fair share group

halve/halving

parts/parts of a whole share (out)

sharing whole

GENERAL

above across around behind below beside between bottom compare down

every

first, second, third... twentieth front in front of inside near next to on/on top of opposite

set sideways sort through top towards under/underneath

up upside down

outside over

Year 1

NUMBER

amount bigger/smalletr count on/back/in equal to equivalent to even

few/fewest figure great/greater/greatest greater than how many (more)...?

is the same value as

least most odd/even one hundred ones, twos, fives, tens order/in order

pair sequence smallest

PLACE VALUE & ORDER

after as many as base 10 before compare fewer greater/greatest

halfway hundred square larger/largest number(s) number line part part-whole model

smaller/smallest total unit(s) whole

partition

ADDITION & SUBTRACTION

add(ed) addition altogether calculation combine/combination difference (between) equals fact family half/halve how many ...?

minus missing number near doubles number bonds/pairs number sentence

plus subtract/subtracting subtraction take away total

MULTIPLICATION & DIVISION

array balances columns/rows count in tens division/divided by double/doubling/doubled equal groups group/groups of halving left/left over

lots of repeated addition multiple sharing multiplication multiplied by once, twice, three/five times

ESTIMATING

close to estimate further away guess how many

just over just under too few too many

REASON

agree disagree every other growing pattern incorrect mental/mentally number sentence odd one out

predict put in order recognise repeating pattern sign strategy unequal

MONEY

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amount change cheap(er) exchange how much...? note

pay pound(s) spend/spent total value worth

2D shape(s) 3D shape(s) anticlockwise centre clockwise cone corner(s) cube cuboid

direction edge face flat hollow/solid identical

longer

middle

oblong

point/pointed position quarter/half/three quarter/ full turn rectangle shorter left/right side size sphere square

square corners star

surface

tube

straight (line) symmetry/symmetrical

DATA

cylinder

list set sort table vote

MEASUREMENT

accurate balance(s) capacity contain(s) container depth distance half/quarter full heavier/heaviest height higher/highest length

lesser/least lighter/lightest low mass

measurement narrow non-standard unit of measure

taller/tallest

November

unit (of measure)

ruler(s) scale shorter/shortest

weigh(s)/weighing wide/wider/widest width

volume

TIME

always April August Autumn calendar date December earlier faster/fastest February finally Friday half past hour(s)

hour/minute/second hand(s) January July June later March May midnight minute(s) Monday month(s) never new/newer/newest

now October often old/older/oldest once o'clock quarter past/to quick/quicker/ quickest Saturday seasons second(s) September

slow/slower/slowest sometimes Spring stopwatch Summer Sunday Thursday Tuesday twice Wednesday week weekend Winter year

FRACTIONS & RATIO

double equal parts fraction

grouping half/halves quarter(s)

sharing three quarters

GENERAL

arrange digit cards hundred square number square right ten frame

Year 2

NUMBER

1-digit number 2-digit number digit predict

quantity set tally tens

turn units value

PLACE VALUE & ORDER

column decrease halfway between higher hundreds

hundred less/more increase interval(s) lower multiples of (ten)

ones column partition pattern placeholder place value

position recombine tens column twenty-first twenty-second

ADDITION & SUBTRACTION

adding sentence/story balances/balancing column(s) count back

in total inverse larger multiple

number facts numeral part-whole model row

part

smaller sum whole tens

MULTIPLICATION & DIVISION

altogether balances combinations divide each equal/unequal equation

equivalent group (equally/between) groups of inverse left over lots of... multiplication table

product scale up set share (equally/between) signs/symbols split (equally/between)

times times table total

twice as big/small as

ESTIMATING

about almost greater than halfway between less than nearer to

round to the nearest ten round up/down

REASON

calculate/calculation complete/completing cycle describe the pattern describe the rule

first I need to... I know this, so I know/ predict/think that... it could (not) be... because... link/linked

mental calculation missing order prove repeat/repeating

rule(s) symbol then I need to... written calculation

MONEY

fewer rounding

GEOMETRY

angle anticlockwise arrow circular clockwise curved surface diagonal

half hexagon horizontal line of symmetry matching/identical/same

ninety degree turn octagon pentagon prism rectangular reflect/reflection right angle

rotate/rotating/rotation semicircle square prism straight line triangular vertex/vertices vertical

DATA

bar chart block graph/diagram category graph

interpret key label pictogram

mirror image

mirror line

tally chart title

MEASUREMENT

approximate capacity centimetre cold/colder/coldest degrees (celsius) distance exact

further/furthest gram graph half kilogram half litre kilogram litre

mass measuring (jug/scale) metre millilitre standard unit of measure

tape measure

temperature

thermometer warm/warmer/warmest weight(s)

TIME

analogue digital earliest fortnight half past

latest midday midnight minutes past/to noon

o'clock quarter past quarter to time difference

FRACTIONS & RATIO

denominator divide equivalent/equivalence factor mixed number non-unit

numerator one third third

two quarters two thirds unit

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GENERAL

investigate method number grid number pairs operation(s) predict

represent sign tally

Year 3

NUMBER

3-digit number factor (of) fifties

number names to 1000 one thousand Roman numerals

PLACE VALUE & ORDER

3-digit number(s) arrange arrangement

ascending descending midpoint

one hundred less/more pattern thousand(s)

ADDITION & SUBTRACTION

balances/balancing bar model column addition/subtraction

error function machine

complete

number trio part-whole model partition/partitioning

rearrange regroup related facts

MULTIPLICATION & DIVISION

bar model compact method divided equally divisor

equal/unequal parts fact family grouped equally half/double the size

how many times bigger/smaller? part-whole model partition quarter/quartering

regroup/regrouping remain/remains/remaining remainder scaling up/down

ESTIMATING

approximate(ly) order

REASON

category collection consecutive terms eliminate

equation greatest value if... then... in that case..

it will/won't work because... least value reasoning related (facts)

statement system unknown number

MONEY

afford budget less/least expensive

more/most expensive rounding

acute attribute centimetre compass point east grid reference hemi-sphere heptagon hexagon hexagonal

intersect/intersection

irregular kite layer millimetre nets north obtuse octagon octagonal orientation parallel

parallel lines parallelogram pentagon pentagonal perimeter perpendicular quadrilateral regular rhombus right-angled row

set south square-based pyramid trapezium tree diagram triangular prism venn diagram west

DATA

axis/axes Carroll diagram columns

diagram frequency frequency table

representation rows Venn diagram

MEASUREMENT

approximately centigrade conversion/convert distance from/to

equivalent interval(s) kilometre mile

millimetre partition perimeter quantity

TIME

12 hours 24 hours a.m/p.m

anticlockwise arabic numerals century

leap year roman numerals timetable

FRACTIONS & RATIO

complements decimals eighths fifths

integer ninths non-unit fraction remainder

sevenths sixths tenths unit fraction

GENERAL

diagram input output



NUMBER

4-digit number classify consecutivedecimal decimal number

decimal place decimal point horizontal hundredths increasing/decreasing

integer magnitude minus negative numbers number range

positive numbers ten thousand tenths whole number

PLACE VALUE & ORDER

1/2 decimal place column value decimal point

hundredth(s) hundred thousand hundredths column

million numeral round to the nearest... tenths column thousandth(s)

ADDITION & SUBTRACTION

column method/calculation complements

not equal to regrouping

rounding zero as a place holder

MULTIPLICATION & DIVISION

... times bigger/smaller common multiples derive divisible by...

factor pair fraction hundred square lowest common multiple multiples ratio related facts square/squared

times table square triple

ESTIMATING

accurately approximation estimation

multiple (of) place value column round amounts

round numbers round to the nearest... significant digit

REASON

commutative convince general rule/statement justify

prove solve true/false

MONEY

half-price sale unit of measure

OXFORD

OXFORD VOCABULARY FRAMEWORK FOR MATHS

area asymmetry axis/axes base boundary compasses concave concave kite convex

coordinate grid

coordinates

cylindrical decagon degree(s) diameter dodecagon equilateral triangle

gridline irregular quadrilateral isosceles triangle line symmetry midpoint

north-east north-west pair of coordinates radius right-angled triangle

rim scalene triangle set square south-east south-west spherical

square-based tessellate/tessellation tetrahedron three-dimensional translate/translation x/y axis x/y direction

x/y value/coordinate

DATA

continuous data grouped data interval line graph

plot point range spread

MEASUREMENT

array breadth convert edge equivalence

lap measuring cylinder metric unit per pint

rate side length speed square centimetre square kilometre

square metre square millimetre surface underweight vessel

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TIME

centuries decades millenium period

previous subsequent timeline

FRACTIONS & RATIO

cancel common fraction decimal place decimal point

equate hundredths proportion set

thousandths twentieth

GENERAL

convention general rule

number range properties

Year 5

NUMBER

cubed cubed number divisible/divisibility

factor pair formula hundred thousand one million prime number squared

square number ≤ less than or equal to ≥ greater than or equal to

PLACE VALUE & ORDER

5-digit number(s) hundred thousand

part-whole relationship power(s) of 10

ten times thousandths column thousand times

ADDITION & SUBTRACTION

bridging decimals efficient writing method integers

inverse relationship quantity value

tenths boundary units boundary

MULTIPLICATION & DIVISION

area model common factors common multiple composite number cube number

decimal dividend divisibility formal written method highest common factor long multiplication one thousandth prime factors prime number quotient

short division square number

ESTIMATING

decimal (place) round to one decimal place round to the nearest whole number

PROBABILITY

certain chance doubt fair

good chance impossible likelihood likely

no chance poor chance possible probable

risk uncertain unfair unlikely

REASON

cancels out conclusion logic

sequence summarise

trial and improvement

proof

MONEY

best value currency discount dollar

euro exchange rate loss overheads

profit takings

GEOMETRY

angles around a point angles on a straight line asymmetric axis of symmetry composite

compound shape

dimensions enlarge equidistant exterior interior magnitude octahedron proportion protractor quadrant ratio reflective symmetery reflex angle

scale drawing scale factor scale of 1 to... transform/transformation triangular-based pyramid

DATA

average bar line chart classify continuous cumulative

database discrete maximum/minimum

value mode percentage pie chart population proportion running total

regular/irregular polygon

sample score summarise two-way table vertical/horizontal axis

OXFORD VOCABULARY FRAMEWORK FOR MATHS

MEASUREMENT

constant rate cubic centimetre displace foot gallon

imperial gallon imperial units inch metric ounce

pound (lb) stone ton/tonne volume yard

FRACTIONS & RATIO

equivalence improper mixed numbers percentage/percent/% proper

proportion ratio reduced to twelfth

GENERAL

area model general

matching specific

Year 6

NUMBER

digit total prime factorise prime factor figures zero

NUMBER

digit total prime factorise prime factor figures zero

PLACE VALUE & ORDER

7-digit number hundred thousand column millions column

one million scale interval ten million

ten thousand column

ADDITION & SUBTRACTION

above/below zero brackets negative

order of operations positive

MULTIPLICATION & DIVISION

brackets decimal point factor tree

long division operations order of operations power of 10 powers prime factorisation repeated subtraction

PROBABILITY

biased even chance equal chance fifty-fifty chance equally likely random

REASON

algebra finite algebraic formula/formulae expression global rule

infinite notation nth term simplify substitute variable

MONEY

bank account gross pay bill income tax mortgage deposit discounted price original price salary tax

altitude arc bisect breadth circumference concentric conservation of area

diameter dissect dissection formula height icosahedron intersecting

plane platonic solid point of intersection radius reflex regular polyhedron

sector

square inch/mile/millimetre

surface area units of area vertically opposite angles volume

DATA

constant

central data set distribution dual bar chart

error mean median mode

outlier sample size skewing statistician

statistics variation

radius

MEASUREMENT

approximately equal base centilitre circumference compasses

cubic metres diameter equation formula layer

one dimensional part square perpendicular height precision

ratio three dimensional two dimensional variation

TIME

annual **British Summer Time** Greenwich Mean Time International Date Line

FRACTIONS & RATIO

integer multiplication missing value relative size

scale factor simplify

GENERAL

algebra formula function identical jotting known values linear sequence substitute

symbol typical varv variables

Glossary

NUMBER

amount

An amount is the total quantity of a set of items.

classify

To classify data is to put data into groups or sets so it can be sorted and interpreted.

to count is to use numbers to find out how many people or things are in a place

cubed number

The cube of a number is the number multiplied by itself twice. The cube of four is $4 \times 4 \times 4$.

decimal

a decimal system uses tens or tenths to count things

decimal point

the dot in a decimal fraction

difference

The difference between two numbers is the value of how much one is greater than the other. It can be found by subtracting the smallest number from the largest, or by counting on from the smallest to the largest.

digit

There are ten digits. They are 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9. These digits are used to build up other numbers.

double

Double is twice as many.

egual

Two things are equal if they are the same in some way. Numbers or calculations are equal when they are worth the same. The symbol for equal to is =.

even

able to be divided exactly by two

factor

A factor is a whole number that will divide exactly into another number.

factorise

To factorise a number is to write that number as the product of its factors. This is helpful for carrying out mental calculations.

figure

A figure is a number used to write an iteger.

A formula is a rule that tells you how to work something out based on certain values. A formula can be given in words or using letters and symbols.

function machine

A function is a rule given to a set of numbers (the input) that changes those numbers (the output). The relationship between input and output numbers is kept the same for any numbers used.

integer

An integer is any whole number. An integer can be a positive or a negative number. Zero is also an integer.

less

a smaller amount; minus

a larger number or amount

negative number

less than zero; minus

numeral

A numeral is any symbol or word for a numberl

an odd number is any whole number that cannob be divided by 2 exactly and will leave a remainder. An odd number is a whole number that is not even.

A pair is two of anything.

A pattern is an arrangement of numbers, lines or shapes that follows a rule.

prime number

A prime number has only two factors which are 1 and itself. One is not a prime number because it only has one factor not two.

A quantity is the total number or amount of items. It can usually be measured or counted.

Roman numerals

The Romans used letters to stand for numbers. They used letters to stand for 1, 5, 10, 50, 100, 500 and 1,000.

A sequence is a set of numbers usually written in a line.

A set is a collection of numbers, shapes or objects that have something in common.

A square number is the product of two identical whole numbers. When a number is squared it is multiplied by itself.

A tally is a mark which shows how often something happens.

unit

Unit is a name for 'one'. Hundreds, tens and units or ones are used in place value.

PLACE VALUE & ORDER

ascending

Ascending means going up or increasing in size.

A column of numbers is written vertically

decimal point

the dot in a decimal fraction

decrease

When you decrease something you make it less or smaller.

Descending means going down or reducing in size.

There are ten digits. They are 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9. These digits are used to build up other numbers.

increase

When you increase something you make it more or larger.

An interval is the amount of time or space between two things.

numeral

A numeral is any symbol or word for a number

partition

When a number is partitioned it is separated into different parts. Partitioning is the act of separating a set into subsets.

place value

separating numbers into ones, tens, hundreds and thousands

You read 34 as 3 to the power of 4. It means $3 \times 3 \times 3 \times 3$. The power shows how many equal numbers have been multiplied together. A number to the power of 2 is said to be squared. A number to the power of 3 is said to be cubed.

Rounding is writing a number as an approximate. Numbers are often rounded to the nearest one, nearest ten or nearest hundred. Rounding often means rounding up or rounding down to the nearest whole number.

A total is found by adding all the numbers together. A total is the sum of numbers.

Unit is a name for 'one'. Hundreds, tens and units or ones are used in place value.

whole

all of something

ADDITION & SUBTRACTION

to add one number to another is to put them together to get a bigger number

Addition is combining two or more numbers together to make a new number called the sum. The symbol for addition is +. This is called the plus sign.

bar model

A representation of a problem using rectangle bars or boxes to help make sense of the problem.

calculation

A calculation is when you have to work out the answer to a number problem.

column method

Written method for adding, subtracting multiplying or dividing in which numbers are written in columns according to their value.

A complement is what is needed to make something complete.

decimal

a decimal system uses tens or tenths to count things

difference

The difference between two numbers is the value of how much one is greater than the other. It can be found by subtracting the smallest number from the largest, or by counting on from the smallest to the largest.

An integer is any whole number. An integer can be a positive or a negative number. Zero is also an integer.

Inverse means reversing something. Addition and subtraction are inverse operations. Multiplication and division are also inverse operations. The inverse undoes the previous calculation.

minus

Minus is the name for the subtraction symbol -.

Plus is the name for the addition symbol +.

subtract

To subtract is to take one number away from another.

subtraction

Subtraction is taking away one number from another. Subtraction gives you the difference between two numbers. It is the inverse of addition. The sign for subtraction is -. This is called the minus sign.

The sum is the result of adding two or more numbers.

take away

To take away is to subtract or remove a number from an amount.

A total is found by adding all the numbers together. A total is the sum of numbers.

ESTIMATING

approximate

An approximate number or measurement is near enough the exact answer. Similar words to approximate are nearly, round about and near enough.

estimate

When you make an estimate you judge the amount without measuring or calculation. A guess is different to an estimate. When you guess you do not have any idea of the answer.

round

Rounding is writing a number as an approximate. Numbers are often rounded to the nearest one, nearest ten or nearest hundred. Rounding often means rounding up or rounding down to the nearest whole number.

PROBABILITY

biased

bias is a strong feeling in favvour of one person or side and against another

certain

something is certain when it is definitely true or is going to happen

doubt

To doubt something is to feel unsure about it.

impossible

not possible

likelihood

the chance of something happening

likely

probable

probable

If something is probable it will most likely happen. It might not happen but the chances are that it will.

random

random means purely by chance. If you choose a number at random you pick any number that you wish. Random numbers do not have an order.

unlikely

not likely to happen or be true



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MULTIPLICATION & DIVISION

An array is an arrangement of numbers or objects into a rectangle. The rows and columns of an array are used to help work out totals in multiplication problems.

bar model

A representation of a problem using rectangle bars or boxes to help make sense of the problem.

common factor

A whole number that divides into two or more other numbers exactly, e.g. 3 is a common factor of 6, 9 and 12.

Any positive whole number that is not aprime number.

cubed number

The cube of a number is the number multiplied by itself twice. The cube of four is $4 \times 4 \times 4$.

divide

When you divide you share things equally or group a quantity into a number of equal parts. To divide a number by another number is to find out how many times the second number is contained in the first. The symbol for 'divided by' is ÷.

When you divide one number into another, the dividend is the number that has to be divided.

One number is divisible by another number if the remainder is zero.

division

Division is grouping into sets of the same size.

When you divide one number into another, the divisor is the number that is divided into the other.

double

Double is twice as many.

equation

An equation has two parts separated by an equal sign. The left part of an equation is always worth the same as the right part.

equivalent

Equivalent means worth the same. Equivalent things may look different but they always have the same value.

factor

A factor is a whole number that will divide exactly into another number.

factorise

To factorise a number is to write that number as the product of its factors. This is helpful for carrying out mental calculations.

halve

If you halve something you divide it into two equal pieces. Halving a number is the same as dividing it by 2.

multiple

A multiple is a number that contains another number (a factor) an exact amount of times with no remainder. 12 is a multiple of 3 as it is made up of four 3s (3 \times 4 = 12). Multiples are like multiplication tables.

multiplication

Multiplication is adding lots of the same number together. The symbol for multiplication is \times .

multiply

When you multiply something you increase it a number of times. Multiplying refers to the same operation as multiplication.

operation

An operation is when you change a number by adding, subtracting, multiplying or dividing. The operation symbols are +-x and \div .

partition

When a number is partitioned it is separated into different parts. Partitioning is the act of separating a set into subsets.

A prime number has only two factors which are 1 and itself. One is not a prime number because it only has one factor not two.

product

The product is the answer you get by multiplying numbers together.

quotient

The quotient is the answer to a division. A quotient can be a whole number, fraction, mixed number or decimal.

remainder

A remainder is what is left after you share something. In division, the remainder is the amount that is left over when you divide one number into another. The short way of writing remainder is r.

When you share you divide things equally. Sharing is the same as dividing. The symbol for sharing is ÷.

square number

A square number is the product of two identical whole numbers. When a number is squared it is multiplied by itself.

REASON

Algebra is the branch of mathematics that uses symbols or letters to represent numbers.

algebraic

An algebraic equation or formula is one that uses algebra.

commutative

When adding or multiplying 2 numbers, the answer will be the same no matter which order the numbers are in, e.g. 2 + 4 = 6and 4 + 2 = 6, $2 \times 6 = 12$ and $6 \times 2 = 12$.

Consecutive means one after the other in a regular order.

equation

An equation has two parts separated by an equal sign. The left part of an equation is always worth the same as the right part.

finite

limited; not infinite

formula/formulae

A formula is a rule that tells you how to work something out based on cerain values. A formula can be given in words or using letters and symbols.

infinite

endless

justify

When trying to prove or disprove an argument or idea, you justify your reasoning by providing good evidence to support it.

A pattern is an arrangement of numbers, lines or shapes that follows a rule.

sequence

A sequence is a set of numbers usually written in a line.

To simplify you write something in a more simple way. Fractions are written in the simplest way when both numerator and denominator are as small as possible.

substitute

to substitute one thing or person for another is to use the first one instead of the second

variable

A variable is an unknown number in an equation that can take different values, usually shown by a symbol or letter.

MONEY

An amount is the total quantity of a set of items.

budget

the money someone plans to spend on something

your change is the money you get back when you give more money than the price of something you are buying, for example if you don't have the right money

A coin is money made from metal. Money is also made from paper and called notes. Coins are usually worth less than notes.

to cost a certain amount is to have that amount as its price

Currency is the money that is used in each country.

discount

A discount is a reduction in the cost of something. You often get a discount for paying early or buying in large quantities.

exchange rate

The exchange rate is the value of a currency when it is exchanged to the currency of another country.

A penny is a coin and unit of money in the UK. There are 100 pence (100p) in one pound (£1). The short way of writing penny is p.

A pound is a unit of money in the UK, equal to 100 pennies. The symbol for pound is \pounds .

Profit is what you make when you sell something for more than you paid for it. The profit is the difference between the buying and selling prices.

The value of something is what it is worth.

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OXFORD VOCABULARY FRAMEWORK FOR MATHS

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having two dimensions: length and width

having three dimensions: length, width and height or depth

acute

An acute angle is an angle that is less than a right angle. It is any angle between 0° and 90°.

An angle is an amount of turn. Angles can be measured in degrees.

anticlockwise

Anticlockwise means turning the opposite way to the hands of a clock.

arc

part of the circumference of a circle, a curve

When you bisect something, you cut it in half.

A circle is a 2D shape that is completely round. Different parts of a circle have special names.

circumference

the line or distance round something, especially round a circle

Clockwise means turning the same way as the hands of a clock.

Concave means curved inwards like a cave.

Shapes that are concentric have a centre that is in common. A bullseye target is made up of concentric circles.

A cone has a flat base that is a circle. The top comes to a point and its sides are curved.

convex

Convex means curved outwards.

Coordinates are two numbers or letters that describe a position on maps, graphs and charts. The horizontal coordinate is always written first and the vertical coordinate is always written second.

A cube is a 3D shape with six square faces. A cube has six faces, eight vertices and 12 edges.

cuboid

A cuboid is a 3D shape shaped like a box, with six rectangular faces. A cuboid has six faces, eight vertices and 12 edges.

A cylinder is a 3D shape shaped like a roller. It has two flat faces and one curved surface. Cross-sections of a cylinder, parallel to the base, or its flat faces, are all identically sized circles.

A decagon is any 2D shape that has 10 straight sides. If all the sides and angles are the same size it is a regular decagon.

degree

Degree (°) is a unit used to measure the size of angles. A complete turn measures 360°.

diameter

a line drawn from one side of a circle to the other, passing through the centre

dodecagon

A dodecagon is any 2D shape that has 12 straight sides. A regular dodecagon has all its sides and angles equal.

The edge of a shape is where two faces meet. An edge can be straight or curved.

equilateral triangle

An equilateral triangle has all its sides the same length. Each of its three angles is also the same.

A face is the side of a solid shape. It usually means flat faces. The base of a shape is also a face.

heptagon

A heptagon is any polygon that has seven straight sides. In a regular heptagon all the sides and angles are equal.

hexagon

A hexagon is any polygon that has six straight sides. In a regular hexagon all the sides and angles are equal.

icosahedron

An icosahedron is a 3D shape that has 20 flat faces. A regular icosahedron has 20 faces that are identical equilateral triangles.

intersect

Lines intersect when they cross each other. Intersecting lines can be straight or curved.

isosceles triangle

An isosceles triangle has two sides that are the same length. Two angles are also equal.

A kite is a four-sided polygon. It has two pairs of adjacent sides that are the same length. A regular polygon also has a pair of angles that are the same.

line of symmetry

A line of symmetry divides a shape in half. One half is the reflection of the other half. The line of symmetry is the same as a mirror line. Some shapes have no lines of symmetry while others have one or more.

An arrangement of 2D polygons that can be folded up to make a complete 3D polyhedron.

An oblong is a shape that is longer than it is wide. Rectangles can be oblongs.

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obtuse

An obtuse angle measures between 90° and 180°.

octagon

An octagon is any polygon that has eight straight sides. In a regular octagon all the sides and angles are equal.

An octahedron is any solid shape that has eight flat faces. A regular octahedron has eight equilateral triangle faces.

parallel

Parallel lines are the same distance apart no matter how long they are. Parallel lines can never cross each other.

parallelogram

A parallelogram is a four-sided shape that has its opposite sides parallel to each other.

A pentagon is any 2D shape with five straight sides. A regular pentagon has all its sides and angles the same.

perpendicular

Two things are perpendicular when they meet at right angles.

Pi is slightly bigger than 3. It is the number you get when you divide the circumference of a circle by its diameter. This always comes to the same number. Pi is approximately 3.142 or 227. The symbol for pi is π .

polyhedron

A polyhedron is any 3D shape made from polygons. Some polyhedra have special names such as cube, pyramid or tetrahedron. Polyhedra have faces, edges and vertices.

prism

A prism is a solid shape with matching ends that are polygons. The cross-section, parallel to the base, of a prism is always the same shape. A prism is also a polyhedron. Cubes and cuboids are special types of prism. The shape of the base gives the prism its name.

quadrilateral

A quadrilateral is any polygon that has four sides. The four angles of a quadrilateral add up to 360°.

radius

a straight line from the centre of a circle to the circumference

A rectangle is a 2D shape that has four straight sides and four right angles. The opposite sides of a rectangle are equal. A square is a special type of rectangle because all 4 sides are the same length. The word rectangle is usually used to mean the oblong rectangle.

A reflex angle is an angle that is between 180° and 360°.

rhombus

A rhombus has four equal sides. The opposite sides are parallel. It is the correct name for a diamond shape.

right angle

A right angle is a quarter of a complete turn. It measures 90°.

scale factor

A numerical factor by which each of a set of quantities is multiplied.

scalene triangle

A scalene triangle has no sides the same length. All its angles are a different size.

Some 2D shapes have sides. The sides can be straight or curved.

A solid figure is any shape that has a length, width and height. A solid has three dimensions. Not all solids have flat faces.

A sphere is a perfectly round shape like a ball.

A square is a regular polygon. It is a quadrilateral with its four sides and angles the same size.

A star can have four or more points. Extending the sides of a regular polygon will make a star. Stars are also polygons.

A surface is the face on a shape. It has length and width but no thickness. A surface can be flat or curved.

The area of a shape is how much surface it has. Area is measured in square units such as square centimetres (cm2), square metres (m2) and square kilometres (km2).

symmetry

A shape has symmetry when two or more of its parts are matching shapes. There are different types of symmetry. Plane shapes can be symmetrical about a line or have rotational symmetry about a point. Solid shapes can have symmetry about a plane or an axis.

When you tessellate, you fit shapes together into a pattern without leaving any gaps between the shapes. Triangles and quadrilaterals will always tessellate.

tetrahedron

A tetrahedron is a solid shape with four sides. Each side is a triangle. The regular tetrahedron has faces that are equilateral triangles.

translate

If you translate a shape you slide it to a different position. You do not turn or rotate the shape.

trapezium

A trapezium is a four-sided shape that has one pair of sides that are parallel. The other two sides are not parallel.

triangle

A triangle is a polygon that has three sides. The three angles of a triangle add up to 180°. All triangles will tessellate. The words equilateral, isosceles and scalene tell you about the sides of a triangle. The words acute, obtuse, and right-angled tell you about the angles of a triangle.

triangular prism

A triangular prism is a prism that has triangular ends. The end can be any type of triangle.

venn diagram

A Venn diagram is used for sorting sets of things.

A vertex is a point at which two or more lines meet in an object or

DATA

Many graphs have two axes: a horizontal axis and a vertical axis.

A bar chart (or bar graph) is a graph that uses bars to show information. The bars are all the same thickness and can be horizontal or vertical. The bars usually show two different types of information. For example, to show how many animals there are, the bars can have names listed on the x-axis and numbers on the y-axis. Vertical bar charts or bar graphs are also called column graphs.

carrol diagram

A Carroll diagram is used for sorting. One part of the diagram is the opposite of the other. Carroll diagrams are named after the author, Lewis Carroll.

classify

To classify data is to put data into groups or sets so it can be sorted and interpreted.

database

A database is a large amount of information often stored in a computer. You can use the database to sort the information in different ways.

Frequency is how often something happens.

A graph is a picture, chart or diagram showing information about things.

Mean is a kind of average. To find the mean, total the quantities then divide by the number of quantities.

median

Median is a kind of average. To find the median, write out the quantities in order. The median is the quantity that has the middle value.

mode

Mode is a kind of average. The mode is the quantity or number that occurs most often.

pictogram

In a pictogram pictures are used to stand for quantities. A picture can stand for one thing or a number of things. Pictograms can also be called pictographs or picture graphs.

In a pie chart information is shown as a circle. The different-sized sectors or slices of the pie chart stand for the different quantities they represent. For example, the slices of a pie chart can represent the percentage of people ordering different types of dessert in a restaurant.

A scale model is in proportion to the real thing. With a scale of one fifth everything on the model would be one fifth of the real thing. Maps are in proportion to the real measurements on the around.

The range is the difference between the smallest value and the largest value. You often need to know the range when you are finding averages.

table

When information is written in a list in rows and columns, it is often called a table. Multiplication facts written in order are called the multiplication tables.

tally chart

A way to record counting by making marks on a chart.

venn diagram

A Venn diagram is used for sorting sets of things.

The horizontal axis of a graph is called the x-axis.

y axis

The vertical axis of a graph is called the y-axis.

MEASUREMENT

The area of a shape is how much surface it has. Area is measured in square units such as square centimetres (cm2), square metres (m2) and square kilometres (km2).

An array is an arrangement of numbers or objects into a rectangle. The rows and columns of an array are used to help work out totals in multiplication problems.

capacity

Capacity is how much something holds. It is usually measured in litres and millilitres.

Centigrade is a scale used to measure temperature. It is the same scale as Celsius (°C) which is now used instead of centigrade.

centimetre

A centimetre is one hundredth of a metre. There are 10 millimetres in 1 centimetre. Centi- at the start of a word usually means 'one hundredth'.

Deep is how far down or back something goes. For example, water can be deep and so can a cave.

degrees celsius

Celsius is a scale used to measure temperature. It is written as degrees Celsius (°C). It is named after the Swedish scientist Anton Celsius. It has replaced the Centigrade scale.

A gallon is an imperial unit used to measure capacity. A gallon is divided into eight parts called pints. A gallon measures about

gram

Grams are metric units of mass used to weigh things. There are 1000 grams in a kilogram. One gram is very light. The short way of writing gram is g.

A shape that has nothing inside is hollow.

imperial unit

an imperial unit or measure is a non-metric one such as a gallon, ounce or yard

inch

An inch is an imperial unit used to measure length. Twelve inches measure the same as one foot. An inch measures about 212 cm.

kilogram

A kilogram is a metric unit of mass used for weighing. There are 1,000 grams in 1 kilogram.

kilometre

A kilometre is a metric unit of length used to measure long distances. There are 1,000 m in 1 km.

A litre is a metric unit used to measure capacity or volume. It is usually used for measuring liquids. The short way of writing litre is I.

mass

Mass is the amount of matter or material in an object. An elephant has more mass than a cat. Mass and weight are closely linked but are not the same. Weight is the measurement of the force of gravity on an object and is related to its mass. Metric units of mass are grams, kilograms and tonnes.

measure

A measure is the size of something using a measuring unit. The measuring units are usually metric or imperial.

metre

A metre is a metric unit used to measure length or distance. The short way of writing metre is m.

metric unit

a unit of mass or weight in the metric system

A mile is an imperial unit used to measure long distances. The distance got its name from the Latin mille passus which meant a thousand paces. It takes about 15 minutes to walk 1 mile. 1 mile is approximately 1,600 m.

A millilitre is a metric unit used to measure a small capacity or volume. There are 1,000 millilitres in 1 litre. A teaspoon holds about 5 ml.

millimetre

A millimetre is a metric unit used to measure a small length or distance. There are 1,000 mm in 1 m. The short way of writing millimetre is mm.

ounce

An ounce is an imperial unit of weight or mass. The short way of writing ounce is oz. 1 oz is about 28 g.

The perimeter is the distance all the way around a shape. You can calculate the perimeter of 2D shapes by adding together the length of the lines that make up the shape. For a circle, the perimeter is its circumference.

A pint is an imperial unit used to measure capacity. Eight pints make a gallon. A pint is about half a litre. A litre is about 134

pound

A pound is an imperial unit of weight or mass. The short way of writing pound is lb. A pound is divided into 16 ounces. A one-pound weight is about 450 grams. A kilogram is about 2.14 pounds.

scale

A scale is a set of points on a line used for measuring. You can see a scale on maps, thermometers, measuring jugs or rulers.

If something is shallow it does not go down or back a long way.

A stone is an imperial unit used to measure weight or mass. A stone weighs about 6 kilograms. Stones used to be the unit used to weigh people.

A ton is an imperial unit used to measure mass or weight. It is a very heavy weight weighing about 1,000 kg.

Volume is the amount of space taken up by a solid shape. When measuring volume, cubic units such as cm³ and m³ are used.

You weigh something to find out how heavy it is. To weigh something you use a balance or scales.

Weight is the heaviness of something. Weight is the force with which an object is pulled towards the centre of the Earth. The word weight is often used instead of mass although they are not quite the same.

A yard is an imperial unit used to measure distance. There are three feet in one yard. A yard is about 90 cm.

TIME

analogue

Analogue clocks and watches have hands that tell the time.

British Summer Time

British Summer Time (BST) is the period of time between March and October when clocks are put forward by 1 hour in the UK.

A century is a set of one hundred. A century is 100 years.

A decade is a period of 10 years.

a digital clock or watch has a row of digits to indicate numbers

fortnight

a period of two weeks

Greenwich Mean Time

Greenwich Mean Time (GMT) is a standard time measured at the Prime Meridian at the Royal Observatory in Greenwich, London.

midday

Midday is the middle of the day. It is another name for noon. Midday happens 12 hours after midnight. Midday is the time when a.m. times become p.m. times.

midnight

Midnight is the middle of the night. Midnight happens 12 hours after midday. Midnight is the time when p.m. times become a.m. times. Using a 24 hour clock midnight is 24:00 or 00:00; both these are correct.

o'clock

used after the number of the hour when you are saying what

FRACTIONS & RATIO

denominator

The bottom number of a fraction is called the denominator. The denominator tells you how many equal parts the quantity or shape has been divided into.

fraction

Fractions are usually parts of something. The bottom part of a fraction is called the denominator. It tells you the number of equal parts. The top part is the numerator. It tells you the number of those parts you are dealing with.

A half is one of two equal parts. You can find half of a shape, quantity or number.

If you halve something you divide it into two equal pieces. Halving a number is the same as dividing it by 2.

hundredth

One-hundredth is a fraction showing a whole divided into 100 equal parts.

improper fraction

An improper fraction has a numerator larger than its denominator. It is a fraction that is worth more than one.

mixed number

A number written as a whole number and a fraction.

non-unit fraction

A non-unit fraction is any common fraction with a numerator that is greater than 1. Each non-unit fraction shows more than one part of a whole divided into equal parts.

numerator

The top number of a fraction is called the numerator. The numerator tells you how many equal parts there are.

percentage

A percentage is a number which tells you how many are in each hundred. A percentage is another way or writing a fraction that has a denominator of 100.

A proper fraction is when the numerator is smaller than the denominator. It is a fraction worth less than 1.

proportion

Numbers can be in proportion. 2 and 6 are in the same proportion as 5 and 15 because in each pair the first number is a third of the second number.

quarter

A quarter is one of four equal parts. You can find a quarter of a shape, quantity or number. Two quarters is the same as a half.

ratio

A ratio is a way of comparing one quantity to another. The sign for ratio is:.

remainder

A remainder is what is left after you share something. In division, the remainder is the amount that is left over when you divide one number into another. The short way of writing remainder is r.

whole

all of something