

Mathematical Vocabulary Children in Year 5

Should know, understand, use and be able to spell.

(Words new to Year 5 are emphasised.)

Place value, ordering and rounding

units, ones

tens, hundreds, thousands

ten thousand, hundred thousand, million

digit, one-, two-, three- or four-digit number

numeral

'teens' number

place, place value

stands for, represents

exchange

the same number as, as many as

equal to

Of two objects/amounts:

$>$, greater than, more than, larger than, bigger than

$<$, less than, fewer than, smaller than

\geq , *greater than or equal to*

\leq , *less than or equal to*

Of three or more objects/amounts:

greatest, most, largest, biggest

least, fewest, smallest

one... ten... one hundred... one thousand more/less

compare, order, size

ascending/descending order

first... tenth... twentieth

last, last but one

before, after, next

between, half-way between

guess how many, estimate

nearly, roughly, close to, about the same as

approximate, approximately

\approx , *is approximately equal to*

just over, just under

exact, exactly

too many, too few, enough, not enough

round (up or down), nearest

round to the nearest ten/hundred

round to the nearest thousand

integer

positive, negative

above/below zero, minus

Properties of numbers and number sequences

number, count, how many...?
odd, even
every other
how many times?
multiple of
digit
next, consecutive
sequence
continue
predict
pattern, pair, rule
relationship
sort, classify, property
formula
divisible (by), *divisibility*, factor
square number
one squared, two squared....(1², 2²...)

Fractions, decimals, percentages, ratio and proportion

part, equal parts
fraction, *proper/improper fraction*
mixed number
numerator, denominator
equivalent, reduced to, cancel
one whole
half, quarter, eighth
third, sixth, *ninth, twelfth*
fifth, tenth, twentieth, *hundredth*
proportion, *ratio*
in every, for every
to every, as many as
decimal, decimal fraction
decimal point, decimal place
percentage, per cent, %

Calculations

Addition and subtraction

add, addition, more, plus, increase
sum, total, altogether
score
double, near double

how many more to make...?
subtract, subtraction, take (away), minus, decrease
leave, how many are left/left over?
difference between
half, halve
how many more/ fewer is... than...?
how much more/less is...?
equals, sign, is the same as
tens boundary, hundreds boundary
units boundary, tenths boundary
inverse

Multiplication and division

lots of, groups of
times, multiply, multiplication, multiplied by
multiple of, product
once, twice, three times
four times, five times... ten times
times as (big, long, wide, and so on)
repeated addition
array
row, column
double, halve
share, share equally
one each, two each, three each...
group in pairs, threes... tens
equal groups of
divide, divided by, divided into, divisible by
remainder
factor, quotient, divisible by
inverse

Using a calculator

calculator
display, key, enter, clear
constant

Solving problems

Making decisions and reasoning

pattern, puzzle
calculate, calculation
mental calculation
method, *strategy*
jotting

answer
right, correct, wrong
what could we try next?
how did you work it out?
number sentence
sign, operation, symbol, equation

Money

money
coin, note
penny, pence, pound, (£)
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more, more/most expensive
cheap, costs less, cheaper, less/least expensive
how much...? how many...?
total, amount, value, worth
discount
currency

Handling data

count, tally, sort, vote
survey, questionnaire
data, *database*
graph, block graph, *line graph*
pictogram,
represent
group, set
list, chart, bar chart, *bar line chart*
tally chart
table, frequency table
Carroll diagram, Venn diagram
label, title, axis, axes
diagram
most popular, most common
least popular, least common
mode, range
maximum/minimum value
classify, *outcome*

Probability

fair, unfair

likely, unlikely, likelihood

certain, uncertain

probable, possible, impossible

chance, good chance

poor chance, no chance

risk, doubt

Measures, shape and space

Measures (general)

measure, measurement

size

compare

unit, standard unit

metric unit, imperial unit

measuring scale, division

guess, estimate

enough, not enough

too much, too little

too many, too few

nearly, roughly, about, close to

about the same as, approximately

just over, just under

Length

length, width, height, depth, breadth

long, short, tall, high, low

wide, narrow, deep, shallow, thick, thin

longer, shorter, taller, higher... and so on

longest, shortest, tallest, highest... and so on

far, further, furthest, near, close

distance apart/between... to... from

edge, perimeter

kilometre (*km*), metre (*m*), centimetre (*cm*), millimetre (*mm*)

mile

ruler, metre stick, tape measure

Mass

mass: big, bigger, small, smaller, balances

weight: heavy/light, heavier/lighter, heaviest/lightest

weigh, weighs

kilogram (*kg*), half-kilogram, gram (*g*)
balance, scales

Capacity

capacity
full, half full
empty
holds, contains
litre (*l*), half-litre, millilitre (*ml*)
pint, *gallon*
container, measuring cylinder

Area

area, covers, surface
square centimetre (cm^2), *square metre* (m^2)
square millimetre (mm^2)

Time

time
days of the week: Monday, Tuesday...
months of the year: January, February...
seasons: spring, summer, autumn, winter
day, week, fortnight, month
year, leap year, century, millennium
weekend, birthday
holiday
calendar, date, date of birth
morning, afternoon, evening, night
am, pm, noon, midnight
today, yesterday, tomorrow
before, after, next, last
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
fast, faster, fastest, slow, slower, slowest, slowly
old, older, oldest, new, newer, newest
takes longer, takes less time
how long ago?/how long will it be to...?
how long will it take to...?
timetable, arrive, depart
hour, minute, second
o'clock, half past, quarter to, quarter past
clock, watch, hands
digital/analogue clock/watch, timer
24-hour clock, *12-hour clock*
how often?
always, never, often, sometimes, usually

Shape and space

shape, pattern
flat, line
curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, construct, draw, sketch
centre, radius, diameter
net
surface
angle, right-angled
congruent
base, square-based
vertex, vertices
layer, diagram
regular, irregular
concave, convex
open, closed

3D shapes

3D, three-dimensional
cube, cuboid
pyramid
sphere, hemi-sphere, spherical
cone
cylinder, cylindrical
prism
tetrahedron, polyhedron, *octahedron*

2D shapes

2D, two-dimensional
circle, circular, semi-circle
triangle, triangular
equilateral triangle, isosceles triangle, *scalene triangle*
square
rectangle, rectangular, oblong
pentagon, pentagonal
hexagon, hexagonal
heptagon
octagon, octagonal
polygon
quadrilateral

Patterns and symmetry

size
bigger, larger, smaller
symmetrical
line of symmetry, *axis of symmetry*
line symmetry, *reflective symmetry*
fold
match
mirror line, reflection, reflect
pattern, repeating pattern, translation

Position, direction and movement

position
over, under, underneath
above, below, top, bottom, side
on, in, outside, inside, around
in front, behind, front, back
before, after, beside, next to
opposite, apart
between, middle, edge, centre
corner
direction
journey, route, map, plan
left, right
up, down, higher, lower
forwards, backwards, sideways, across
next to, close, far
along, through, to, from, towards, away from
ascend, descend
grid, row, column
origin, coordinates
clockwise, anti-clockwise
compass point, north, south, east, west (N, S, E, W)
north-east, north-west, south-east, south-west
(NE, NW, SE, SW)
horizontal, vertical, diagonal
parallel, perpendicular
x-axis, y-axis
quadrant
movement
slide, roll
whole turn, half turn, quarter turn
rotate, *rotation*
angle, ...is a greater/smaller angle than
right angle, *acute, obtuse*
degree
straight line
stretch, bend

ruler, set square
angle measurer, compasses, *protractor*

Instructions

listen, join in, say, recite
think, imagine, remember
start from, start with, start at
look at, point to, show me

put, place
arrange, rearrange
change, change over
split, separate

carry on, continue, repeat
what comes next? predict
describe the pattern, describe the rule

find, find all, find different
investigate

choose, decide
collect

use, make, build, construct, *bisect*

tell me, describe, name, pick out, *identify*
discuss, talk about
explain
explain your method/answer/ *reasoning*
give an example of...
show how you...
show your working
justify
make a statement

read, write, record
write in figures
present, represent
interpret
trace, copy
complete, finish, end

fill in, shade, colour
label, plot

tick, cross
draw, sketch
draw a line between, join (up), ring, arrow

cost, count, tally

calculate, work out, solve, *convert*
investigate, question
answer
check

General

same, different
missing number/s
number facts, number pairs, number bonds
greatest value, least value
number line, number track
number square, hundred square
number cards, number grid
abacus
counters, cubes, blocks, rods
die, dice, *spinner*
dominoes
pegs, peg board, pin board
geo-strips
same way, different way
best way, another way
in order, in a different order
not
all, every, each