

The Language of Mathematics in the Alaska Mathematics Standards Grade 1



Counting and Cardinality

alike	Same size, quantity, or amount.
compare	To decide if one number is greater than, less than, or equal to another number. Can also be used to tell how shapes are alike or different.
fewer	Smaller quantity or amount.
fewest	A word used when comparing three or more groups of objects.
greater than	Greater than is used to compare two numbers when the first number is larger than the second number ($>$).
is the same as	The meaning of the equal sign. Having the same amount on each side of the equal sign. (also known as equal)
less than	Less than is used to compare two numbers when the first number is smaller than the second number ($<$). Less than can be used to describe an action to mentally subtract 10 from a given number.
more	Greater quantity or amount.
more than	More than can be used to describe an action to mentally add 10 more to a given number.
most	A word used when comparing three or more groups of objects.
number	A number indicates how many or how much. The number of objects can be named by the numeral.
numeral	A symbol used to represent a number. (e.g., 6 and VI are numerals that represent the same number.)
One-to-one correspondence	The ability to match each member of one set to the member of an equal set.
order	A sequence or arrangement of things.
subitizing	The ability to perceive the number of a group of items at a glance without counting them.
zero	No objects; a cardinal number indicating the absence of all units. A whole number that tells there are no objects in a set.

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Operations and Algebraic Thinking

add	To combine; put together two or more quantities.
addend	Any number being added.
compose	To put together smaller numbers to make larger numbers, or to put together 2 or more shapes to create a new shape.
count back	A way to subtract.
count on	A way to add.
count up	A way to subtract. Finding the difference by adding up from the smaller number to the larger number.
decompose	To separate a number into 2 or more parts, or to separate a shape into smaller shapes.
difference	The result when one number is subtracted from another.
digit	Any of the symbols 0, 1, 2, 3, 4, 5, 6, 7, 8, or 9.
doubles	Addition facts with two addends that are the same.
doubles minus 1	An addition fact with a double to add and then subtract one.
doubles plus 1	An addition fact with a double to add and then add one.
equal	Having the same amount. (e.g., 4 equals $3 + 1$ means that 4 is the same amount as $3 + 1$.)
equal parts	Parts of an object or group that have been divided equally into pieces. (also known as equal shares)
equal shares	Parts of an object or group that have been divided equally into pieces. (also known as equal parts)
equal sign	A symbol showing that one amount is the same as another ($=$). (also known as is the same as)
equation	A number sentence with an equal sign. The amount on one side of the equal sign has the same value as the amount on the other side.
expression	A mathematical phrase without an equal sign.
fact family	A group of related facts that use the same numbers. (also known as related facts)

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Operations and Algebraic Thinking

false	Not true; incorrect. A false equation does not have the same value on each side of the equal sign.
fourth of	One of 4 equal parts.
fourths	The parts you get when you divide something into 4 equal parts.
half of	One of 2 equal parts.
plus	A symbol that shows addition; combine; put together two or more quantities.
quarters	Four equal parts or shares.
quarter of	One of 4 equal parts.
take away	To subtract.
true	Accurate; correct. A true equation has the same value on each side of the equal sign.
unknown	A number that is not known.
whole	All of an object, a group of objects, shape, or quantity.

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Numbers and Operations in Base Ten

hundred	A number equal to 10 tens or 100 ones.
making ten	A strategy that uses combinations of numbers that add up to ten.
numeral	A symbol used to represent a number. (e.g., 6 and VI are numerals that represent the same number.)
ones	A single unit or object.
place value	The value a digit has because of its place in a number.
ten	A group of ten ones. One more than nine; one less than eleven.
tens	Sets of ten ones. (i.e., 10, 20, 30, 40, 50, 60, 70, 80, or 90)

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Measurement and Data

analog clock	A clock that shows the time by the positions of the hour and minute hands.
bar graph	A graph that uses height or length of rectangles to compare data.
bar model	A model that uses bars to represent known and unknown quantities and the relationship between these quantities.
data	A collection of information.
date	A given month, day, and year.
day	There are 24 hours in a day.
digital clock	A clock that shows the time with numbers of hours and minutes; usually separated by a colon. (:)
half hour	A unit of time equal to 30 minutes.
half past	30 minutes after the hour.
hour	A unit of time equal to 60 minutes.
hour hand	The short hand on a clock, which indicates the hour of day.
minute	A unit of time equal to 60 seconds.
minute hand	The long hand on a clock, which indicates number of minutes.
number line	A diagram that represents numbers as points on a line.
picture graph	A graph that uses pictures or symbols to show data.
tally chart	A chart that uses tally marks to record data.
tally mark	A mark that shows a number or quantity. A tally shows one. A line through four tallies shows five.

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Geometry

attribute	A characteristic of an object such as color, shape, size, etc.
category	A collection of things sharing a common attribute.
circle	A shape with no sides and no vertices.
closed shape	A shape with all the sides connected.
composite shape	A shape that is made from 2 or more geometric shapes.
cone	A solid shape with a circular base, a curved surface, and one vertex.
cube	A solid shape with six square faces.
curved surface	A rounded surface.
cylinder	A solid shape with two circular bases and a curved surface.
different	Not the same; unlike. Compare two or more objects or figures to find what is not the same.
face	A flat surface on a solid shape.
flat surface	A surface that is not curved.
geometric shapes chart	http://www.exploratorium.edu/geometryplayground/Activities/GeometricShapesChart.pdf
half-circle	Half of a circle.
hexagon	A plane shape with six straight sides and six vertices.
length	How long something is. The distance from one point to another.
longer	A word used when comparing the length of two objects.
longest	A word used when ordering three or more objects by length.
measure	To find a number that shows the size or quantity of something.

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Geometry

Geometry	
object	A material thing that can be seen and touched.
partition	Describes an action to divide shapes into smaller parts.
quarter-circle	A fourth of a circle.
rectangle	A plane shape with 4 sides and 4 square vertices.
rectangular prism	A rectangular three-dimensional shape.
rhombus	A two-dimensional figure with all 4 sides equal in length.
shorter	A word used when comparing the height or length of two objects.
shortest	A word used when comparing three or more objects in length.
side	One of the line segments that makes a flat, two-dimensional shape.
solid shape	A shape that is not flat; an object that has three dimensions. (i.e., height, length, and width)
sort	To group or organize according to shared attributes.
sphere	A solid shape with a curved surface.
square	A plane shape with 4 sides that are the same length and 4 right angles.
taller	A word used when comparing the height of two objects.
tallest	A word used when ordering three or more objects by height.
three-dimensional shape	A solid shape that has length, width, and height.
trapezoid	A 4-sided two-dimensional shape that has exactly one pair of parallel sides.
triangle	A plane shape with 3 straight sides and 3 vertices.
two-dimensional shape	A plane, flat shape that has length and width.

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Geometry

unequal parts	Parts of a whole that are not the same size.
unequal shares	Parts of a whole that are not the same size.
unit	What is used to measure the height or length of an object.
vertex (plural - vertices)	A corner of a shape. (plural - vertices; "corners")
whole	All of an object, a group of objects, shape, or quantity.

Illustrated Mathematics Dictionary – www.mathisfun.com/definitions.com