meter (m)

---

meter (m)

A baseball bat is *about* 1 meter long.

---

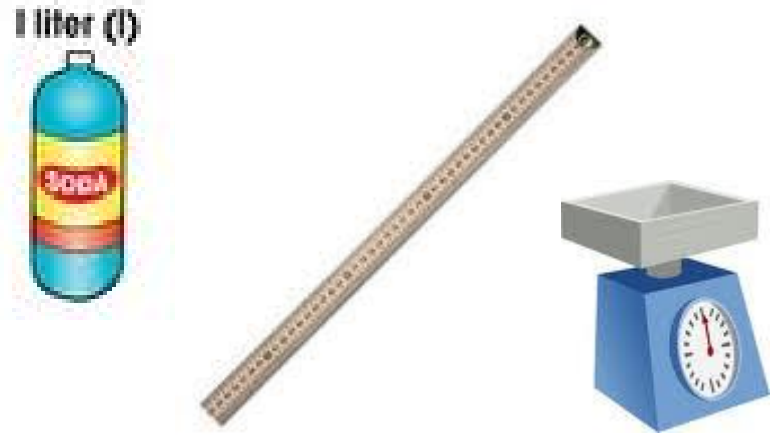
meter (m)

A standard unit of length
in the metric system.

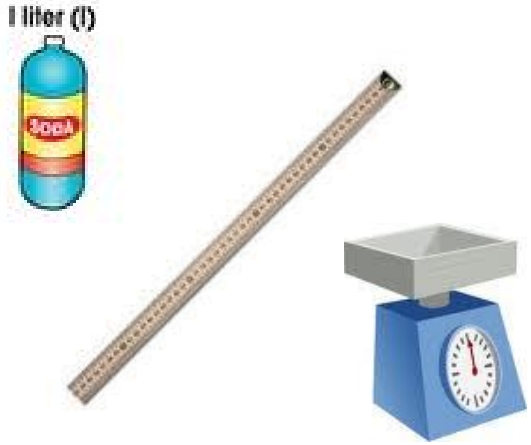
A baseball bat is *about* 1 meter long.

metric system

metric system



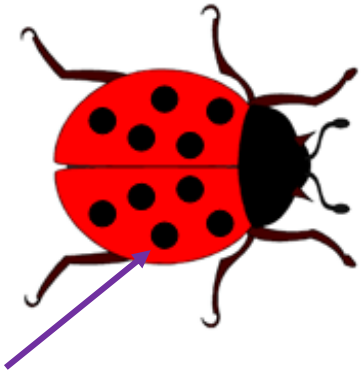
metric system



A system of measurement based on tens. The basic unit of capacity is the liter. The basic unit of length is the meter. The basic unit of mass is the gram.

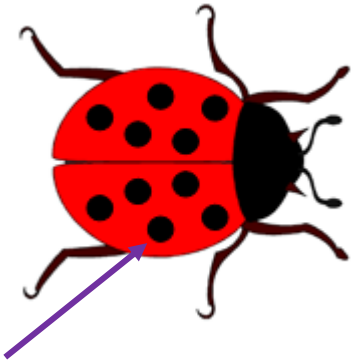
millimeter (mm)

millimeter (mm)



The dot on a ladybug is *about* 1 millimeter wide.

millimeter (mm)



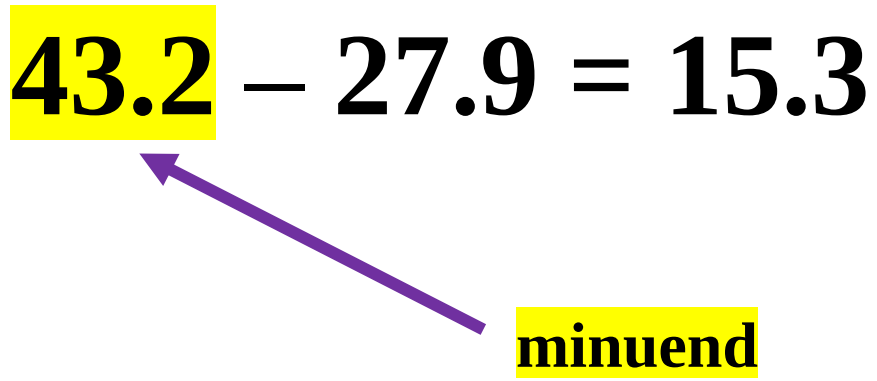
The dot on the ladybug is *about* 1 millimeter wide.

A metric unit of length. 1,000 millimeters = 1 meter

minuend

---

minuend



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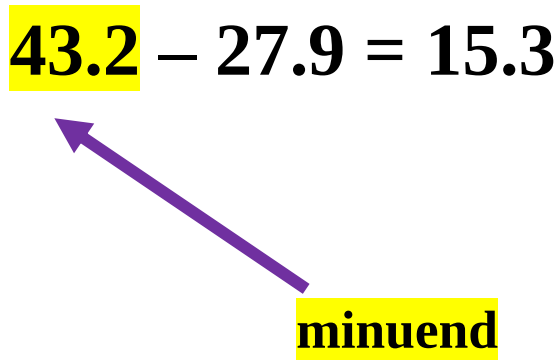
minuend



In subtraction, the minuend is the number you subtract from.

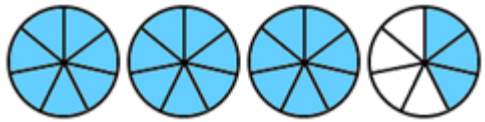
mixed number

---

mixed number

$3\frac{3}{7}$

Example:

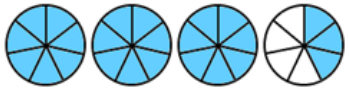


---

mixed number

Example:

$3\frac{3}{7}$



A number with an integer and a fraction part.

Multiplicative Identity Property of 1

Multiplicative Identity Property of 1

1 group of 3 = 3
1 x 3 = 3

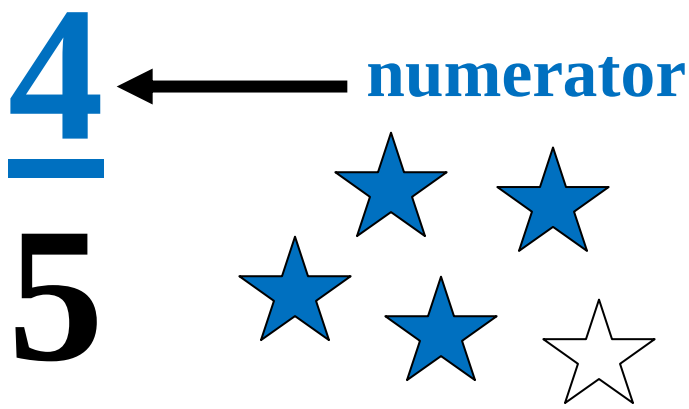
Multiplicative Identity Property of 1

1 group of 3 = 3
1 x 3 = 3

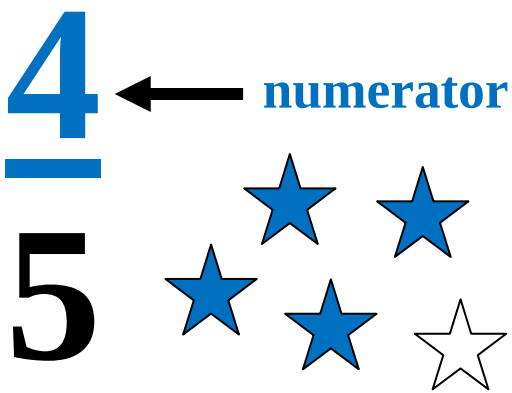
Multiplying a number by one gives a product identical to the given number. Also known as *Identity Property of Multiplication*.

numerator

numerator



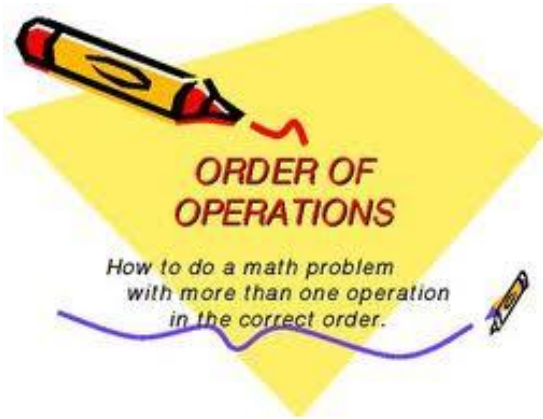
numerator



The number or expression written above the line in a fraction.

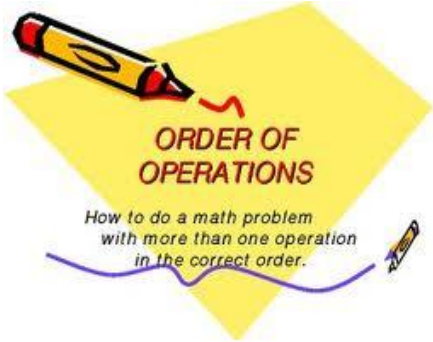
Order of Operations

Order of Operations



Parenthesis
Exponents
Multiply / **D**ivide
Add + **S**ubtract

Order of Operations

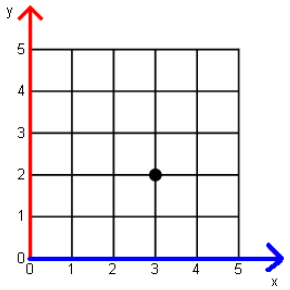


Parenthesis
Exponents
Multiply / **D**ivide
Add + **S**ubtract

An order, agreed on by mathematicians, for performing operations to simplify expressions.

ordered pair

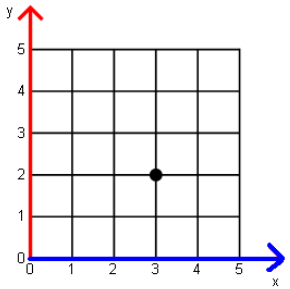
ordered pair



(3, 2)

$(x\ ,y)$

ordered pair



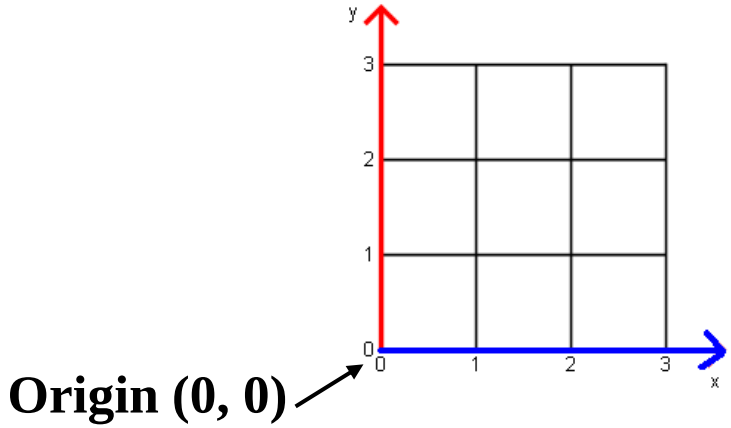
(3, 2)

$(x\ ,y)$

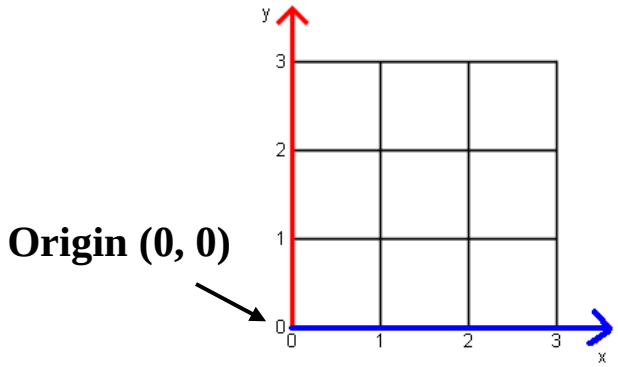
A pair of numbers that gives the coordinates of a point on a grid in this order (horizontal coordinate, vertical coordinate).

origin

origin



origin



The intersection of the *x*- and *y*-axes in a coordinate plane, described by the ordered pair (0, 0).

parentheses

parentheses
( )

(2 + 3) x 4
5 x 4
20

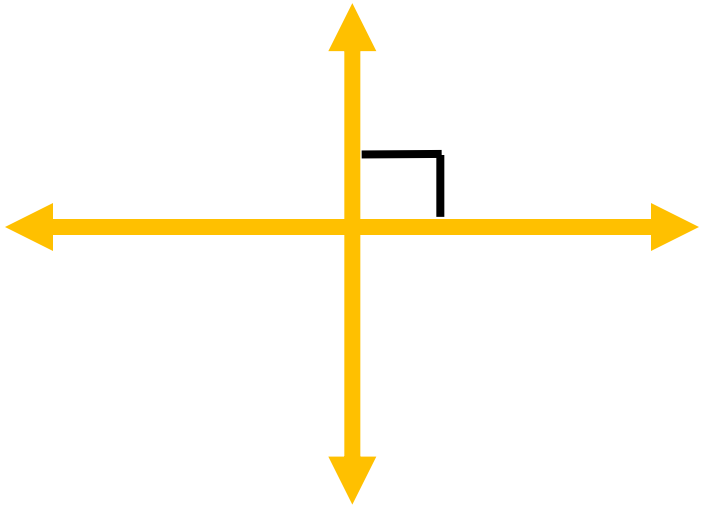
parentheses
( )

(2 + 3) x 4
5 x 4
20

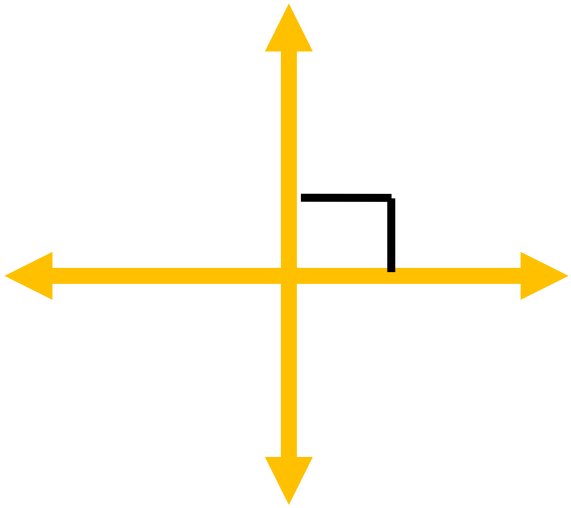
Used in mathematics as grouping symbols for operations. When simplifying an expression, the operations within the parentheses are performed first.

perpendicular

perpendicular



perpendicular



Forming right angles.

place value

place value

MILLIONS				THOUSANDS				ONES		
hundred millions	ten millions	millions	,	hundred thousands	ten thousands	thousands	,	hundreds	tens	ones
7	4	5	,	3	0	9	,	2	8	1

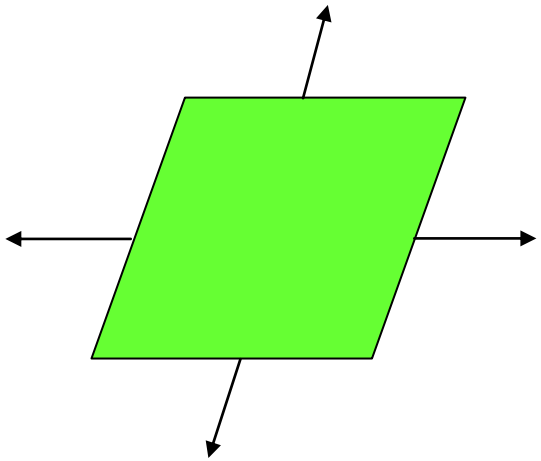
place value

MILLIONS				THOUSANDS				ONES		
hundred millions	ten millions	millions	,	hundred thousands	ten thousands	thousands	,	hundreds	tens	ones
7	4	5	,	3	0	9	,	2	8	1

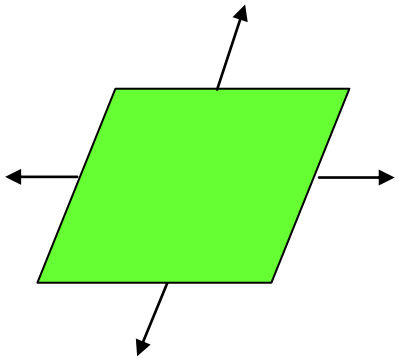
The value of the place of a digit in a number.

plane

plane



plane



A flat surface that extends infinitely in all directions.

powers of ten

powers of ten

10 000	=	10^4
1 000	=	10^3
100	=	10^2
10	=	10^1
1	=	10^0

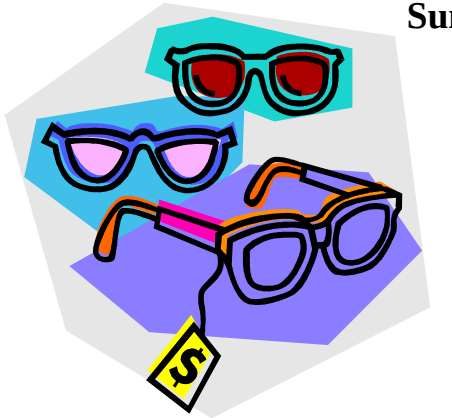
powers of ten

10 000	=	10^4
1 000	=	10^3
100	=	10^2
10	=	10^1
1	=	10^0

Using a base number of 10 with an exponent. Our number system is based on the powers of 10.

product

product



Sunglasses are $9.95 a pair.

$ 9.95
x 3
$29.85

product

product

Sunglasses are $9.95 a pair.

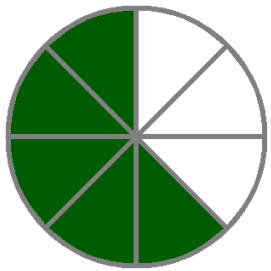
$ 9.95
x 3
$29.85

product

The result of multiplication.

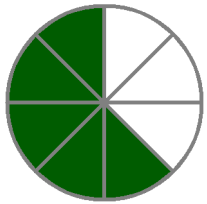
proper fraction

proper fraction



$\frac{5}{8}$ **less than the denominator**

proper fraction

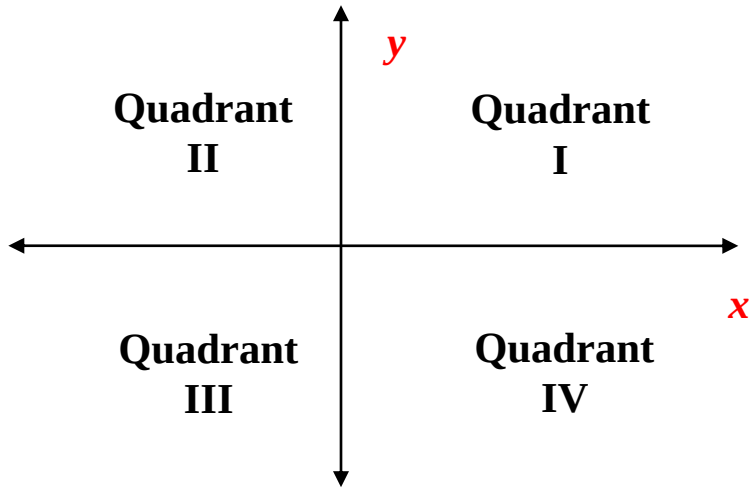


$\frac{5}{8}$ **less than the denominator**

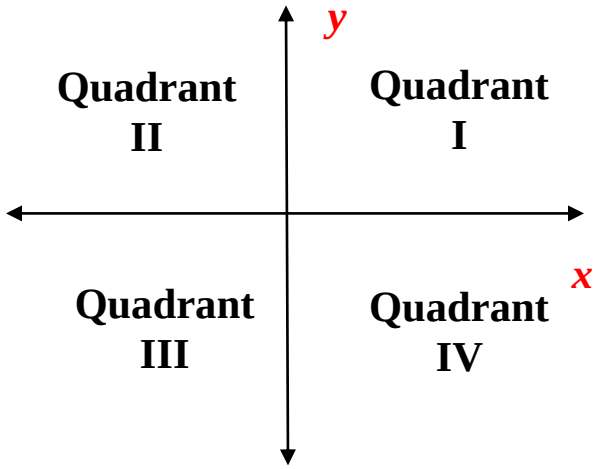
A fraction less than one. In a proper fraction the numerator is less than the denominator.

quadrants

quadrants



quadrants

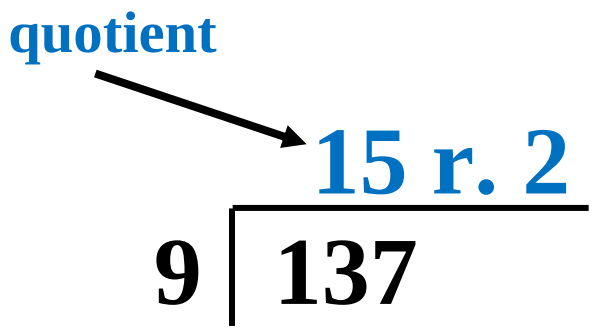


The four sections of a coordinate grid that are separated by the axes.

quotient

---

quotient



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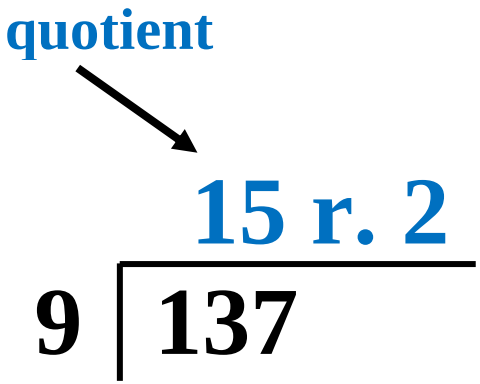
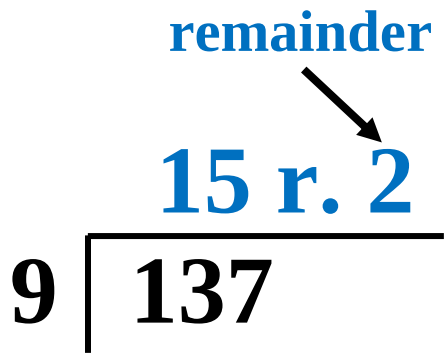
quotient



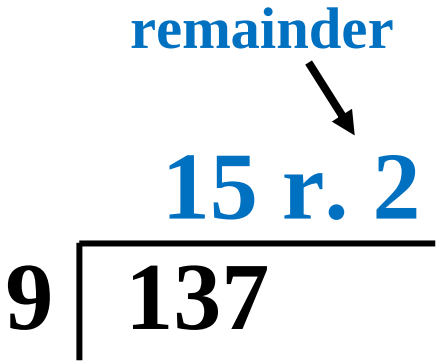
The result of the division of one quantity by another.

remainder

remainder



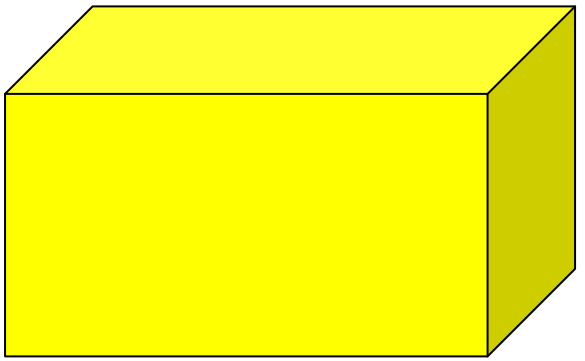
remainder



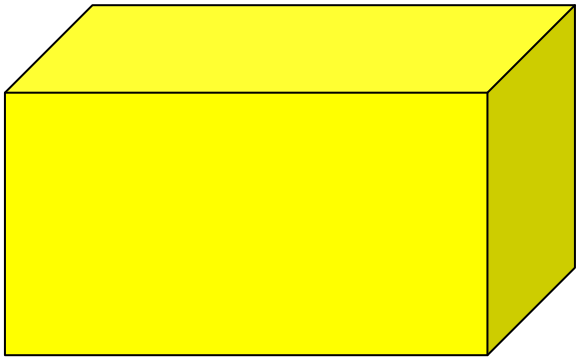
The number that is left over after a whole number is divided equally by another.

right rectangular prism

right rectangular prism



right rectangular prism

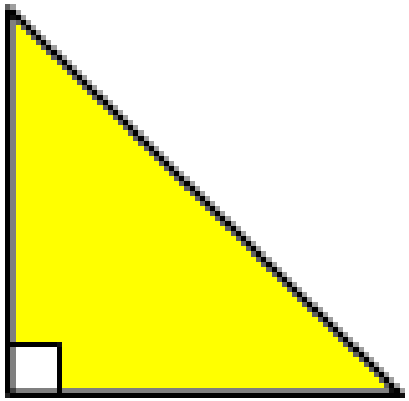


A prism with six rectangular faces where the lateral edge is perpendicular to the plane of the base.

right triangle

---

right triangle



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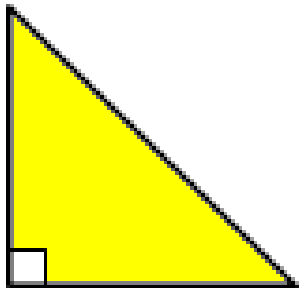
right triangle



A triangle that has one 90º angle.

rounding

rounding 45.357 → 45.4

rounding 45.357 → 45.4

To strategy to find about how much or how many by expressing a number closest to ten, hundred, thousand, or tenth, hundredth, thousandth, etc.

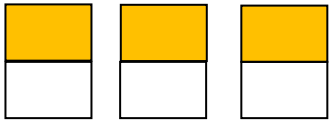
scaling

scaling

3×2

Note: Product is greater than 3.

$3 \times \frac{1}{2}$



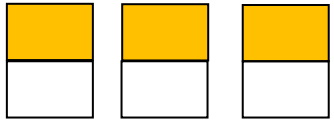
Note: Product is less than 3.

scaling

3×2

Note: Product is greater than 3.

$3 \times \frac{1}{2}$



Note: Product is less than 3.

To increase or decrease proportionately in size.

sequence

---

sequence

2, 5, 8, 11, 14, 17…

What is the pattern?

---

sequence

2, 5, 8, 11, 14, 17…

What is the pattern?

A set of numbers arranged in a special order or pattern.

simplest form

simplest form

A fraction in simplest form has the fewest possible pieces.

simplest form

A fraction in simplest form has the fewest possible pieces.

A fraction is in simplest form when the greatest common factor of the numerator and denominator is 1.

simplify

simplify

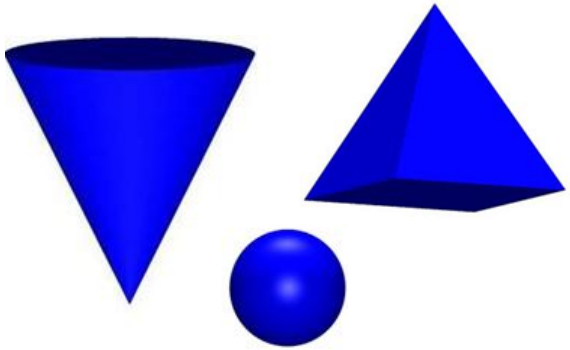
simplify

To express a fraction in simplest form.

solid figure

solid figure

solid figure



A geometric figure with 3 dimensions.

standard form

---

standard form

354,973

---

standard form

354,973

A number written with one digit for each place value.

subtrahend

subtrahend

$$\begin{array}{r} 27.34 \\ -\ 8.29 \\ \hline 19.05 \end{array}$$ ← **subtrahend**

subtrahend

$$\begin{array}{r} 27.34 \\ -\ 8.29 \\ \hline 19.05 \end{array}$$ ← **subtrahend**

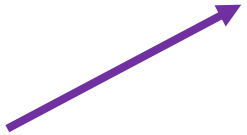
In subtraction, the subtrahend is the number being subtracted.

sum

---

sum

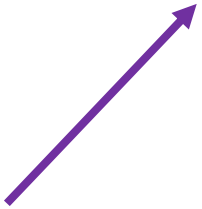
45.3 + 92.9 = 138.2



sum

45.3 + 92.9 = 138.2

sum

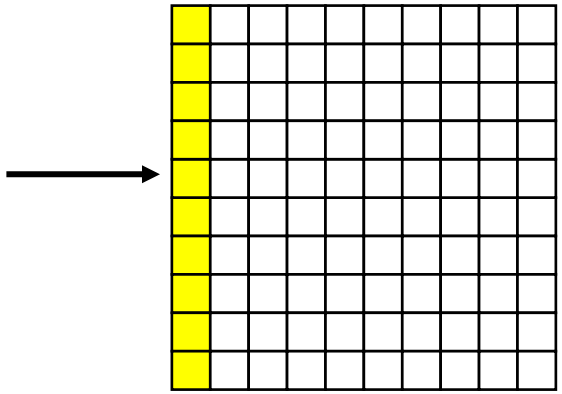


sum

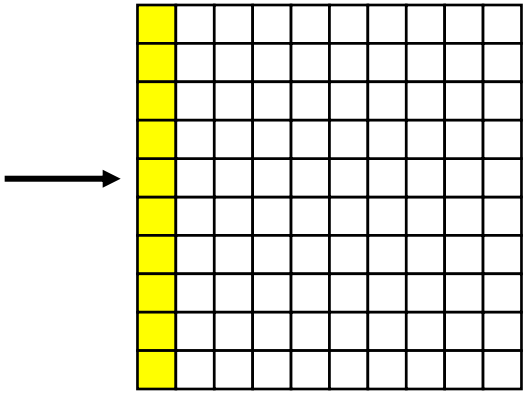
The result of addition.

tenth

tenth



tenth



One of the equal parts when a whole is divided into 10 equal parts.

tenths

tenths

tenths

In the decimal numeration, tenths is the name of the place to the right of the decimal point.

term

---

term

$x + 14$

terms

---

term

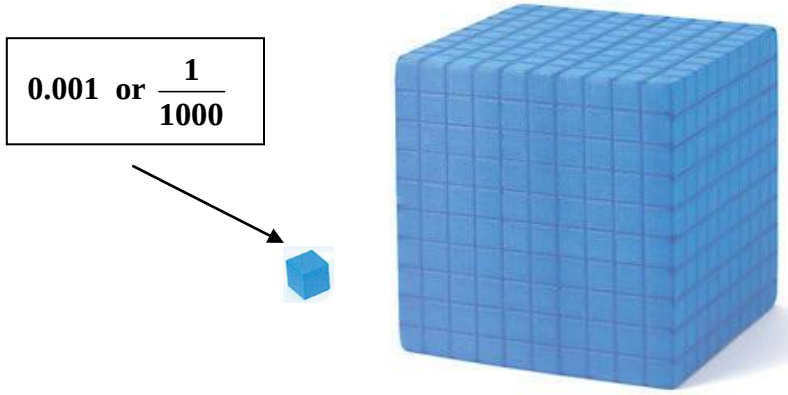
$x + 14$

terms

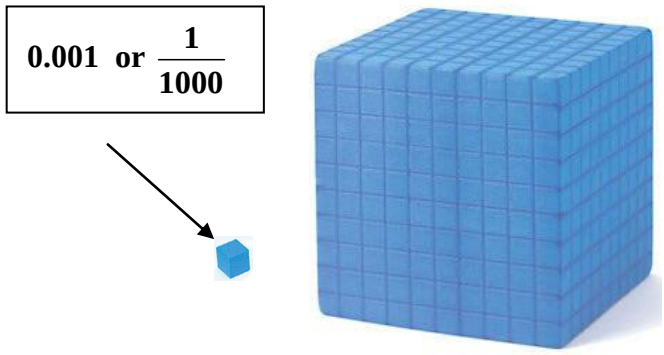
A number, variable, product, or quotient in an expression. A term is *not* a sum or difference.

thousandth

thousandth



thousandth



One of 1000 equal parts of a whole.

thousandths

thousandths 0.276

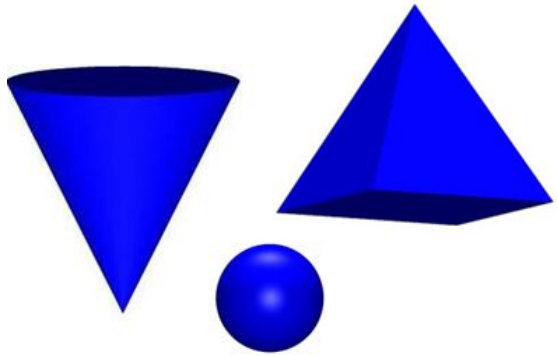
thousandths 0.276

Thousandths is the name of the next place to the right of hundredths in the decimal numeration system.

three-dimensional figures

three-dimensional figures

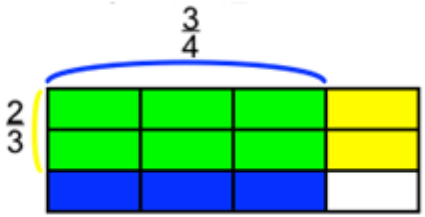
three-dimensional figures



A geometric figure that has length, width, and height.

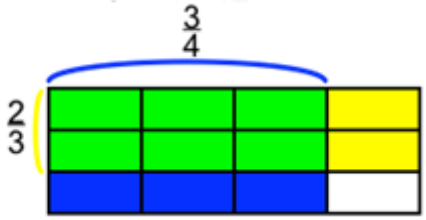
tiling

tiling



$\frac{2}{3}$ **of** $\frac{3}{4} = \frac{6}{12}$

tiling



$\frac{2}{3}$ **of** $\frac{3}{4} = \frac{6}{12}$

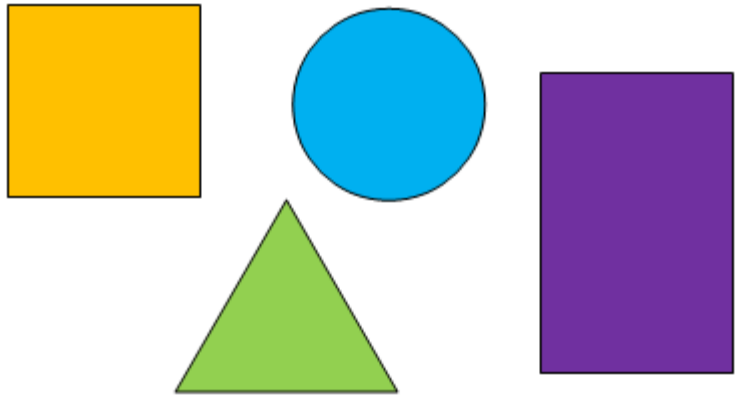
Repeated shapes that fill a plane. The shapes do not overlap and there are no gaps.

You can find the area of a rectangle with fractional lengths by tiling it with appropriate unit squares. The green area represents

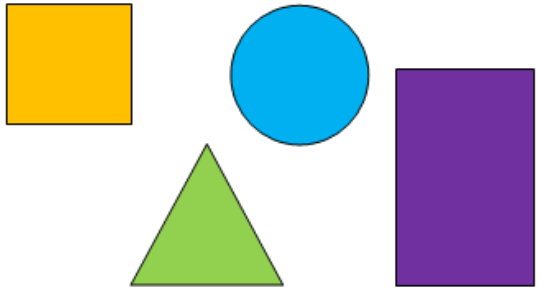
$\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$

two-dimensional figures

two-dimensional figures



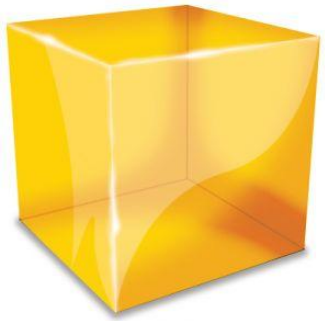
two-dimensional figures

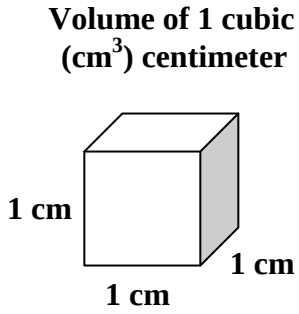


Having length and width. Having area, but not volume. Also called a plane figure.

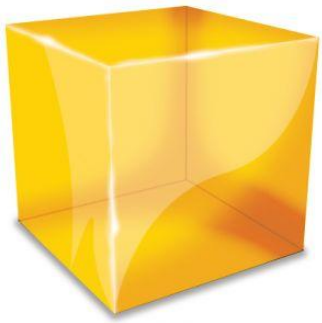
unit cube

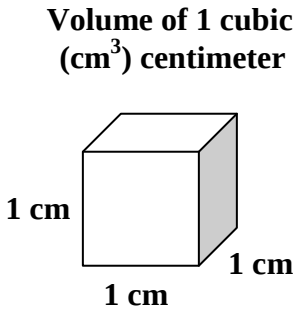
unit cube





unit cube





A precisely fixed quantity used to measure volume.

unit fraction

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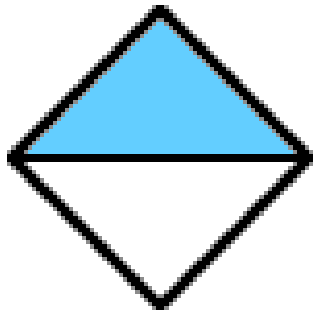
unit fraction

$\frac{1}{2}$

Example



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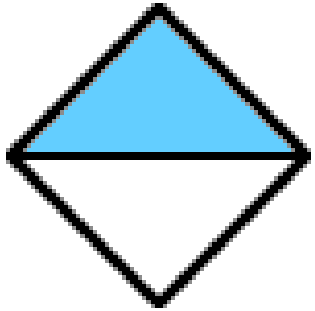
unit fraction

$\frac{1}{2}$

Example



A fraction with a numerator of 1.

unlike denominators

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unlike denominators

$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$

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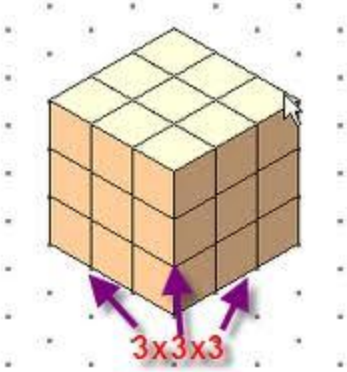
unlike denominators

$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$

Denominators that are not equal.

volume

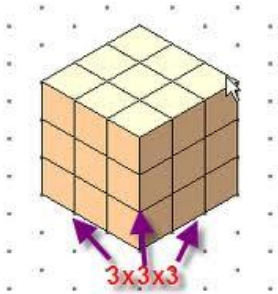
volume



Volume =

27 cubic units

volume



Volume =

27 cubic units

The number of cubic units it takes to fill a figure.

whole numbers

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whole numbers

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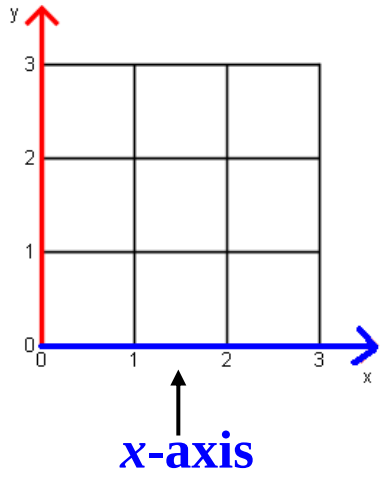
whole numbers

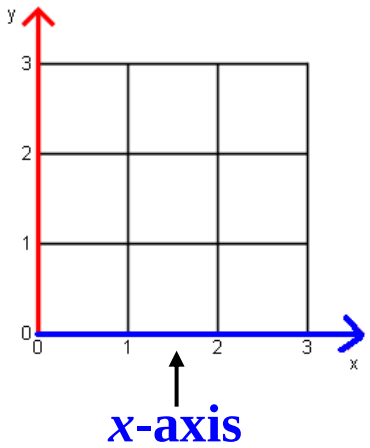
Whole numbers are zero and the counting numbers 1, 2, 3, 4, 5, 6, and so on. If a number has a negative sign, a decimal point, or a part that's a fraction, it is not a whole number.

x-axis

x-axis



x-axis



In a coordinate plane, the horizontal axis.

x-coordinate

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x-coordinate

(7, 2)

x-coordinate

---

x-coordinate

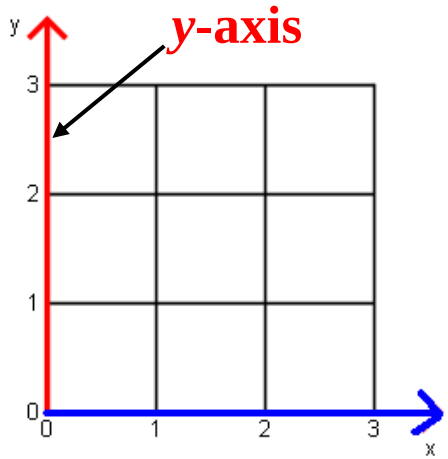
(7, 2)

x-coordinate

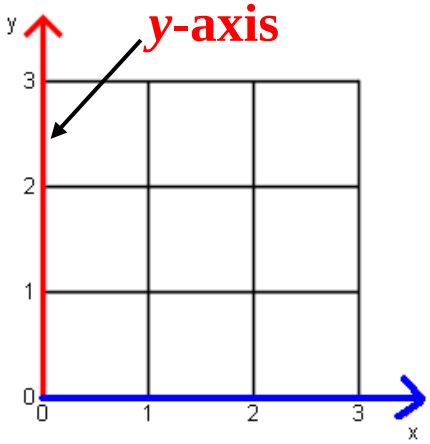
In an ordered pair, the value that is always written first.

y-axis

y-axis



y-axis



In a coordinate plane, the vertical axis.

y-coordinate

y-coordinate

(7, 2)

y-coordinate

y-coordinate

(7, 2)

y-coordinate

In an ordered pair, the value that is always written second.