English 5th Grade M-Z
Vocabulary Cards and Word Walls

Revised: 1/13/14

Important Notes for Teachers:

- The vocabulary cards in this file match the Common Core, the math curriculum adopted by the Utah State Board of Education, August 2010.
- The cards are arranged alphabetically.
- Each card has three sections.
    - Section 1 is only the word. This is to be used as a visual aid in spelling and pronunciation. It is also used when students are writing their own "kid-friendly" definition and drawing their own graphic.
    - Section 2 has the word and a graphic. This graphic is available to be used as a model by the teacher.
    - Section 3 has the word, a graphic, and a definition. This is to be used for the Word Wall in the classroom. For more information on using a Word Wall for Daily Review – see "Vocabulary – Word Wall Ideas" on this website.
- These cards are designed to help all students with math content vocabulary, including ELL, Gifted and Talented, Special Education, and Regular Education students.

For possible additions or corrections to the vocabulary cards, please contact the Granite School District Math Department at 385-646-4239.

Bibliography of Definition Sources:

Algebra to Go, Great Source, 2000. ISBN: 0-669-46151-8
Math on Call, Great Source, 2004. ISBN-13: 978-0-669-50819-2
Math at Hand, Great Source, 1999. ISBN: 0-669-46922
Math to Know, Great Source, 2000. ISBN: 0-669-47153-4
Illustrated Dictionary of Math, Usborne Publishing Ltd., 2003. ISBN: 0-7945-0662-3
Math Dictionary, Eula Ewing Monroe, Boyds Mills Press, 2006. ISBN-13: 978-1-59078-413-6
Oxford Illustrated Math Dictionary, 2012. ISBN: 978-0-19-407128-4
Student Reference Books, Everyday Mathematics, 2007.
Houghton-Mifflin eGlossary, http://www.eduplace.com
Interactive Math Dictionary, http://www.amathsdictionaryforkids.com/

mass

mass

mass

The amount of matter in an object. Usually measured by comparing with an object of known mass. While gravity influences weight, it does not affect mass.

meter (m)

---

meter (m)

A baseball bat is *about* 1 meter long.

---

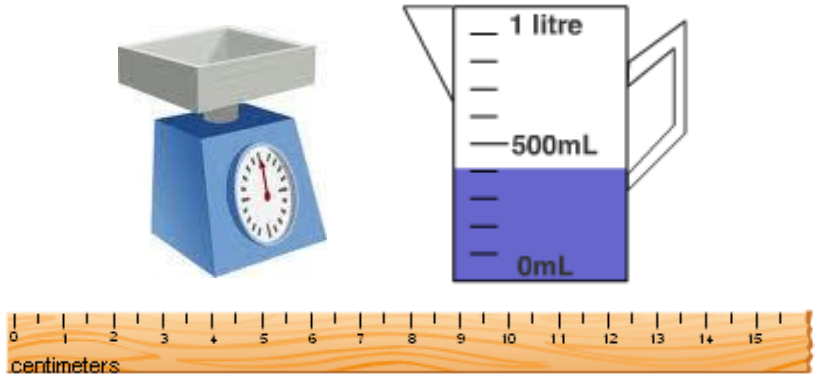
meter (m)

A standard unit of length
in the metric system.

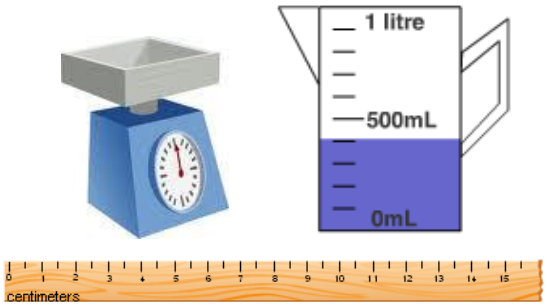
A baseball bat is *about* 1 meter long.

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.

mile

mile

Two times around the average roller coaster is *about* 1 mile.

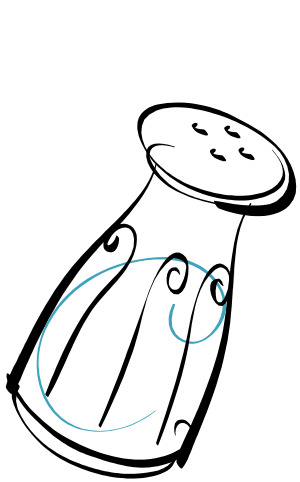
mile

Two times around the average roller coaster is *about* 1 mile.

A customary unit of length.
1 mile = 5,280 feet

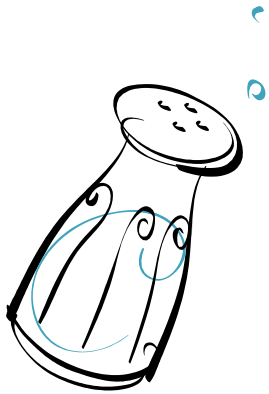
milligram (mg)

milligram (mg)



The mass of a single grain of salt is about 1 milligram.

milligram (mg)



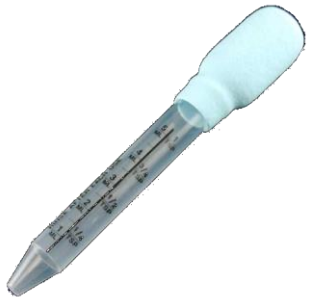
The mass of a single grain of salt is about 1 milligram.

A metric unit of weight.
1,000 milligrams = 1 gram

milliliter (mL)

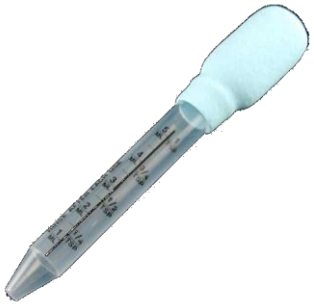
This holds about 10 drops or 1 milliliter.

milliliter (mL)



This holds about 10 drops or 1 milliliter.

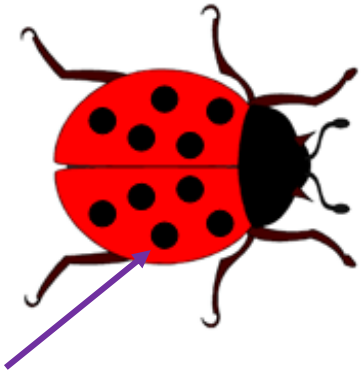
milliliter (mL)



A metric unit of capacity.
1,000 milliliters = 1 liter

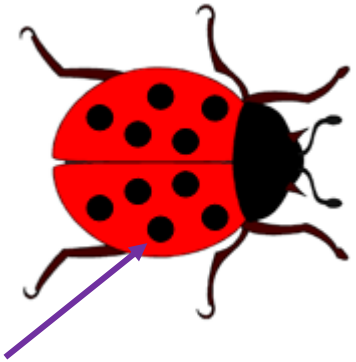
millimeter (mm)

millimeter (mm)



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

millimeter (mm)



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

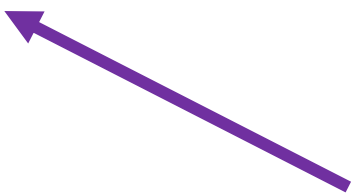
A metric unit of length.
1,000 millimeters = 1 meter

minuend

---

minuend

43.2 – 27.9 = 15.3

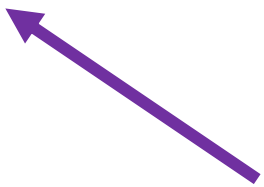


minuend

---

minuend

43.2 – 27.9 = 15.3



minuend

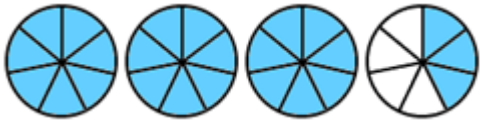
The quantity from which another quantity, the subtrahend, is to be subtracted.

mixed number

---

mixed number

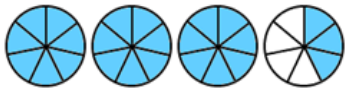
$3\frac{3}{7}$



---

mixed number

$3\frac{3}{7}$



A number with an integer and a fraction part.

multiple

multiple

Multiples of 

7, 14, 21, 28, 35, 42, 49…

multiple

Multiples of 

7, 14, 21, 28, 35, 42, 49…

The product of a whole number and any other whole number.

Multiplicative Identity Property of 1

Multiplicative Identity Property of 1

1 group of 3 = 3
1 × 3 = 3

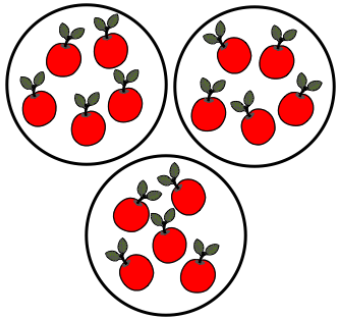
Multiplicative Identity Property of 1

1 group of 3 = 3
1 × 3 = 3

Multiplying a factor by one gives a product identical to the given factor.

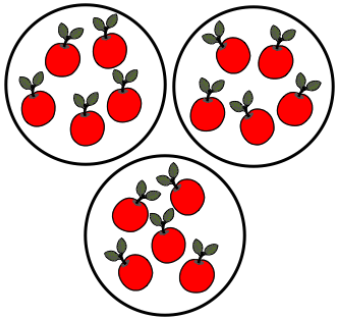
multiply

multiply



$3 \times 5 = 5 + 5 + 5$

multiply

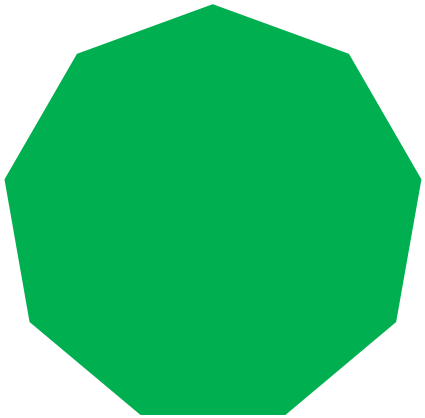


$3 \times 5 = 5 + 5 + 5$

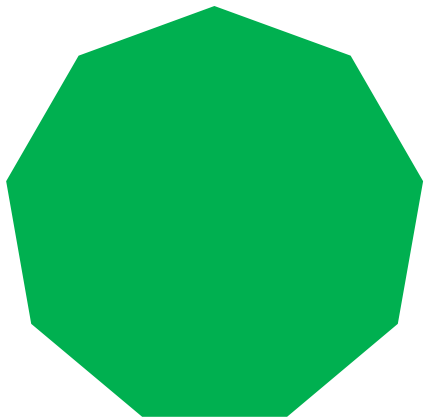
The operation of repeated addition of the same number.

nonagon

nonagon



nonagon



A polygon
with 9 sides.

number line

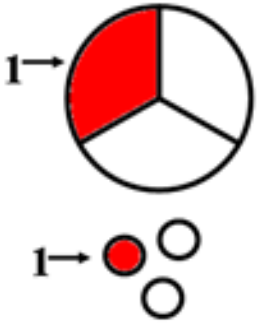
number line

number line

A diagram that represents numbers as points on a line.

numerator

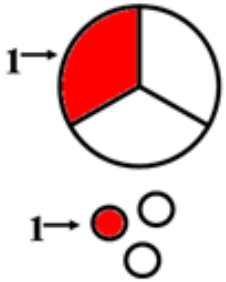
numerator



$\frac{1}{3}$

- Equal parts described in fraction
- Equal parts in the whole

numerator



$\frac{1}{3}$

- Equal parts described in fraction
- Equal parts in the whole

The number written above the line in a fraction. It tells how many equal parts are described in the fraction.

numerical expression

numerical expression

5 + 9

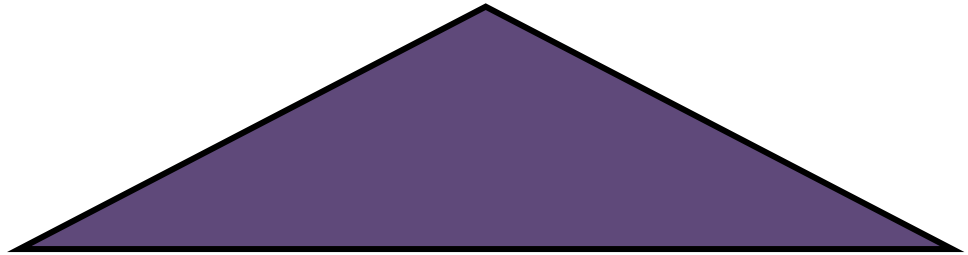
numerical expression

5 + 9

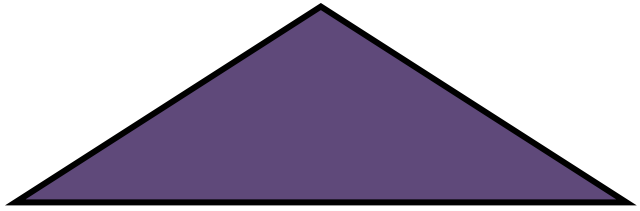
A mathematical statement including numbers and operations.

obtuse triangle

obtuse triangle



obtuse triangle

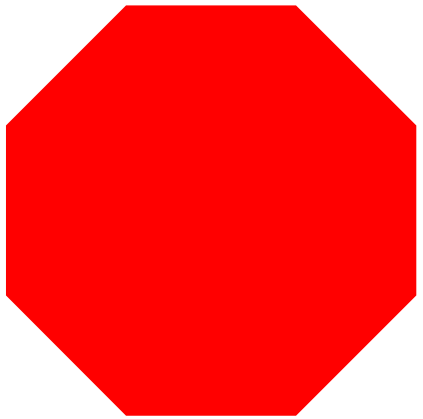


A triangle that has an angle greater than 90º (obtuse angle).

octagon

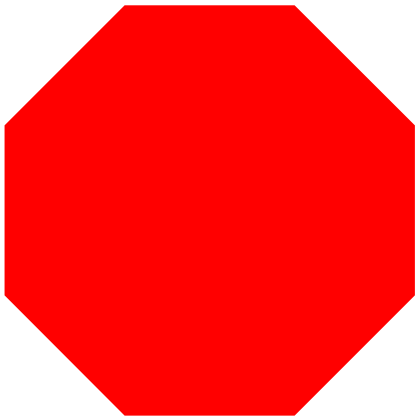
---

octagon



---

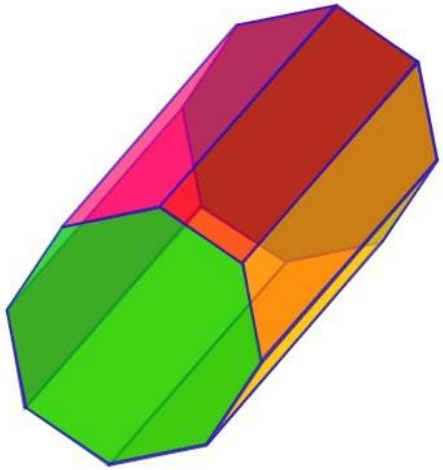
octagon



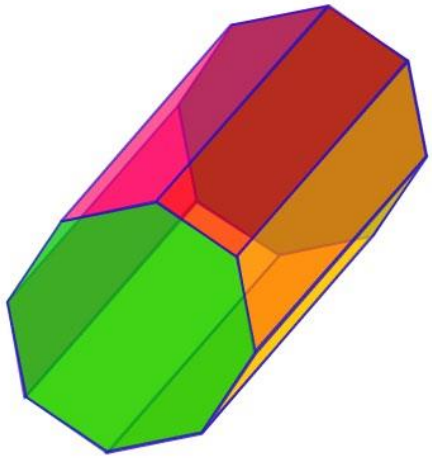
A polygon
with 8 sides.

octagonal prism

octagonal prism



octagonal prism



A prism whose two bases are octagons.

Order of Operations

Order of Operations

How to do a math problem with more than one operation in the correct order.

Parenthesis

Exponents

Multiply/**D**ivide

Add/**S**ubtract

Order of Operations

How to do a math problem with more than one operation in the correct order.

Parenthesis

Exponents

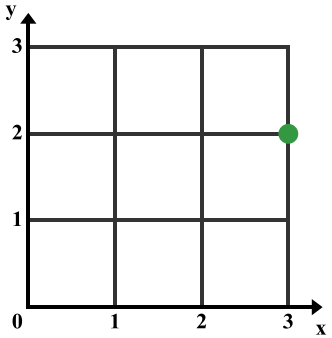
Multply/**D**ivide

Add/**S**ubtract

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

ordered pair

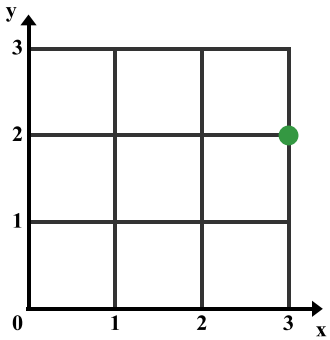
ordered pair



(3, 2)

$(x\ ,y)$

ordered pair



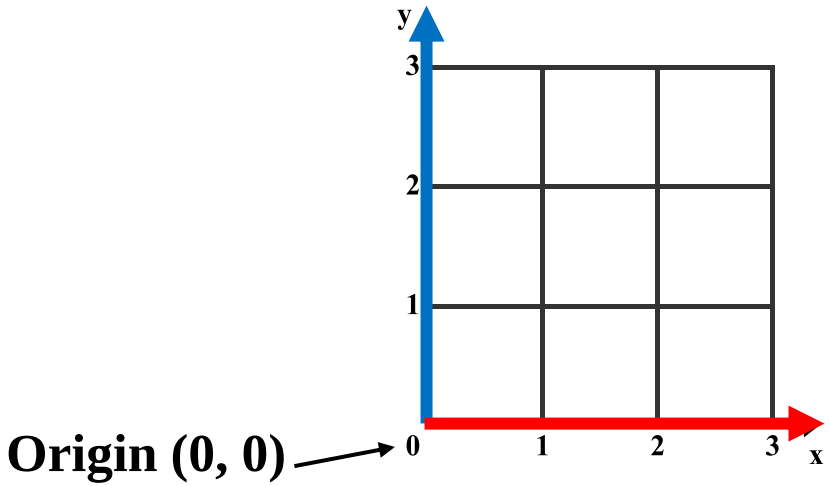
(3, 2)

$(x\ ,y)$

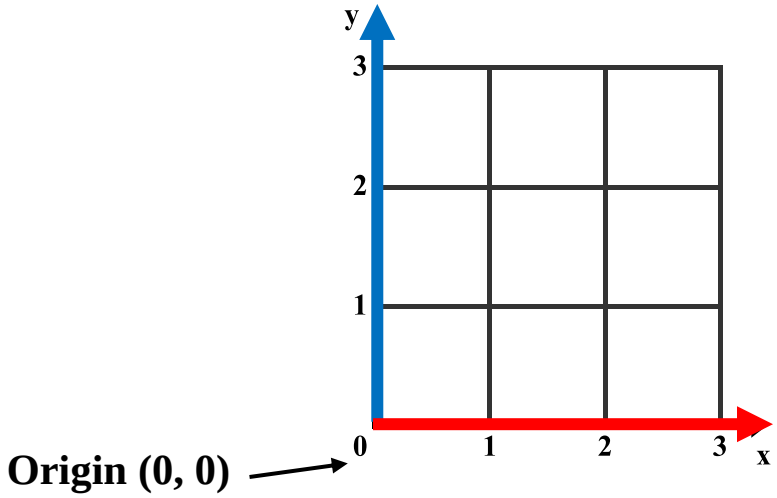
A pair of numbers that gives the coordinates of a point on a grid in this order (horizontal coordinate, vertical coordinate).

origin

origin



origin



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

ounce (oz)

---

ounce (oz)

A strawberry weighs *about* 1 ounce.

---

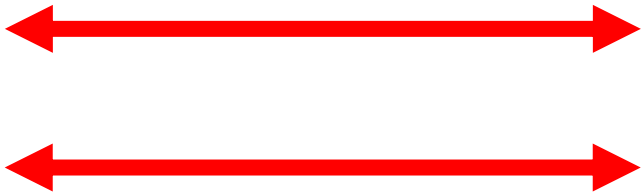
ounce (oz)

A strawberry weighs *about* 1 ounce.

A customary unit of weight equal to one sixteenth of a pound.
16 ounces = 1 pound

parallel lines

parallel lines



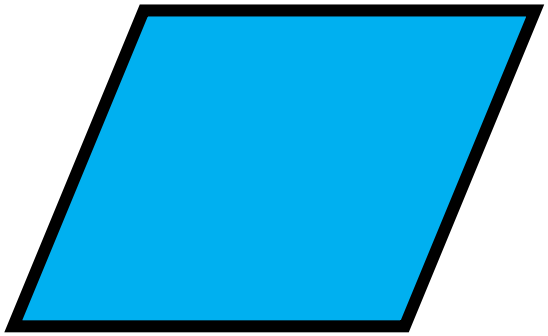
parallel lines

Lines that are always the same distance apart. They do not intersect.

parallelogram

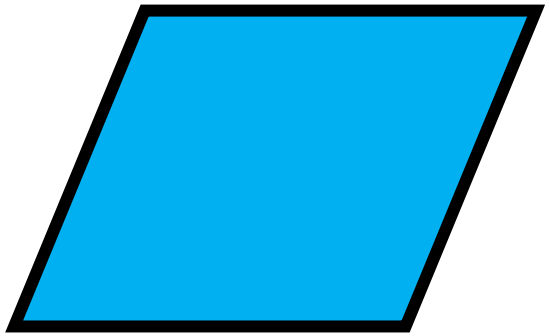
---

parallelogram



---

parallelogram



A quadrilateral with 2 pairs of parallel and congruent sides.

parentheses

parentheses

$$(2 + 3) \times 4$$
$$5 \times 4$$
$$20$$

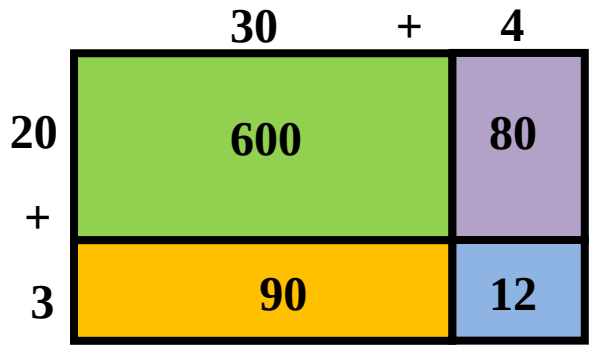
parentheses

$$(2 + 3) \times 4$$
$$5 \times 4$$
$$20$$

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

partial product

partial product

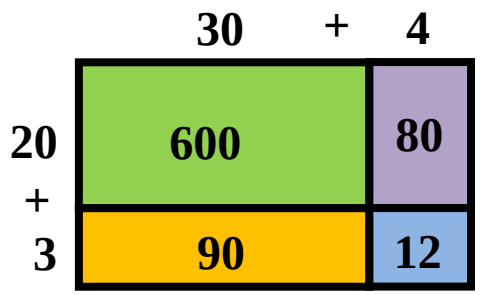


23 × 34 = 782

$$\begin{array}{r} 34 \\ \times\ 23 \\ \hline 600 \\ 80 \\ 90 \\ +\ 12 \\ \hline 782 \end{array}$$

partial products

partial product



23 × 34 = 782

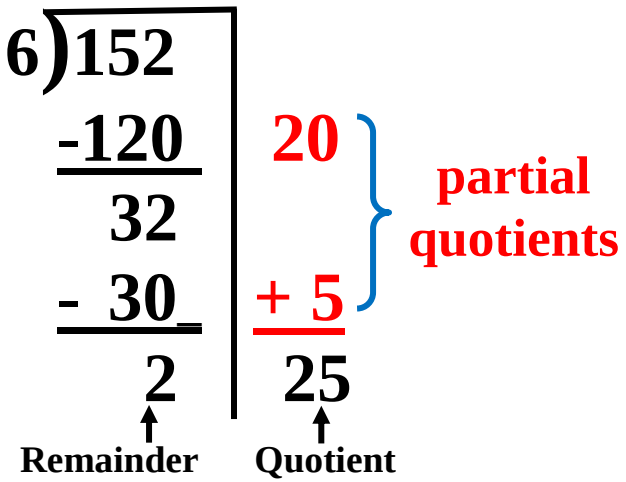
$$\begin{array}{r} 34 \\ \times\ 23 \\ \hline 600 \\ 80 \\ 90 \\ +\ 12 \\ \hline 782 \end{array}$$

partial products

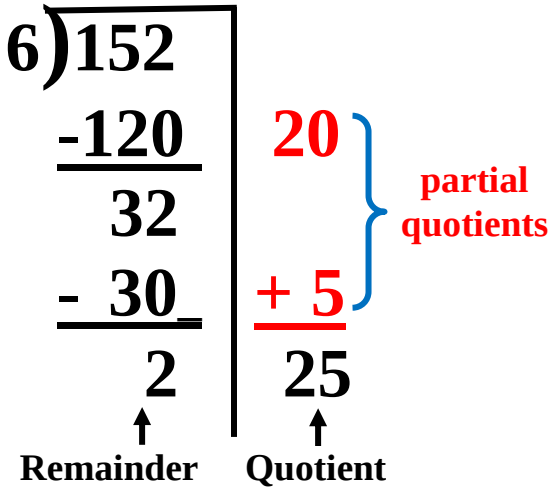
A method of multiplying in which the value of each digit in a factor is multiplied separately, and then the partial products are added together.

partial quotient

partial quotient



partial quotient



A method of dividing in which multiples of the divisor are subtracted from the dividend, and then the partial quotients are added together.

pattern

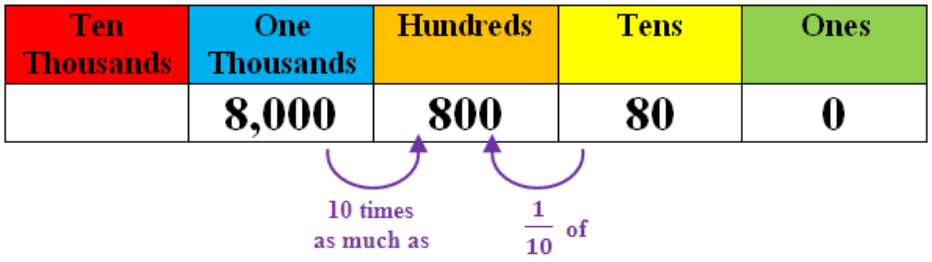
pattern

Ten Thousands	One Thousands	Hundreds	Tens	Ones
	8,000	800	80	0

10 times as much as

$\frac{1}{10}$ of

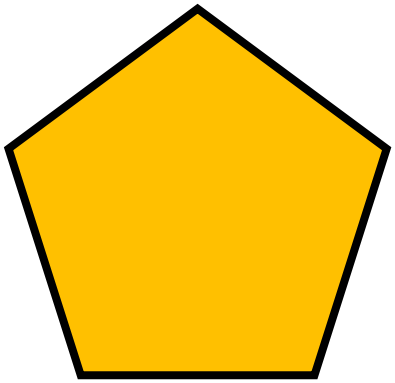
pattern



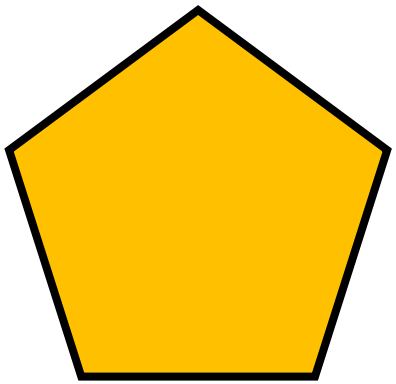
A repeating or growing sequence. An ordered set of numbers arranged according to a rule.

pentagon

pentagon



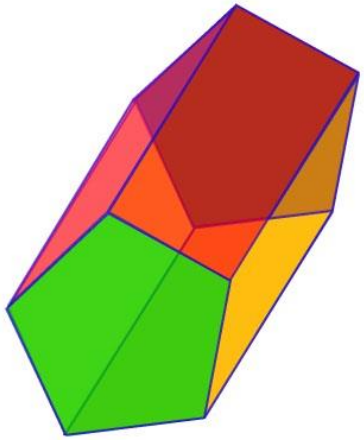
pentagon



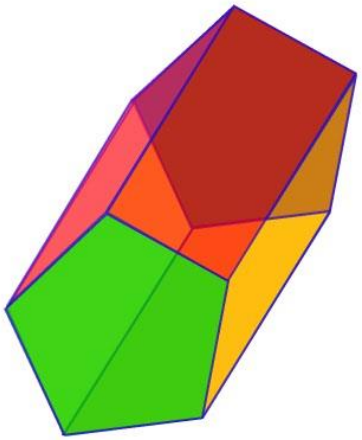
A polygon with 5 sides.

pentagonal prism

pentagonal prism



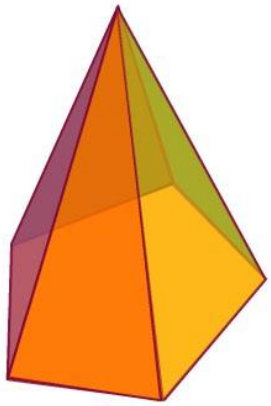
pentagonal prism



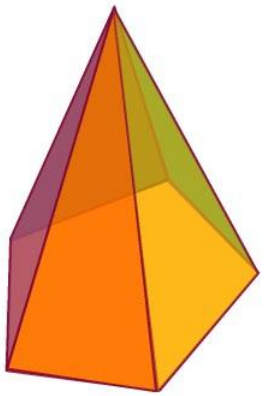
A prism whose two bases are pentagons.

pentagonal pyramid

pentagonal pyramid



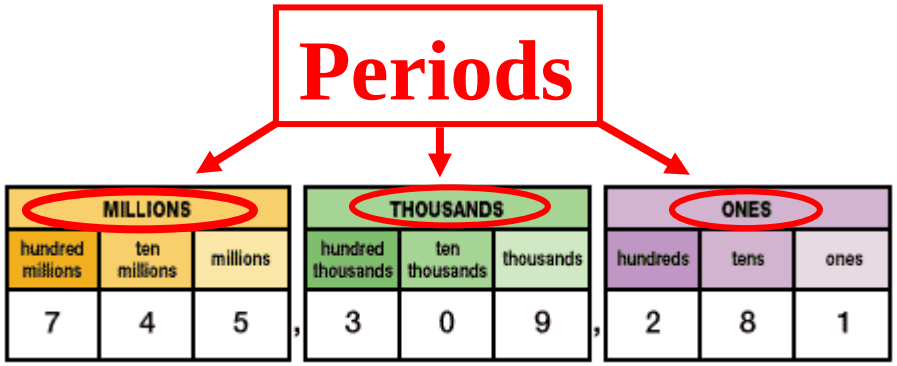
pentagonal pyramid



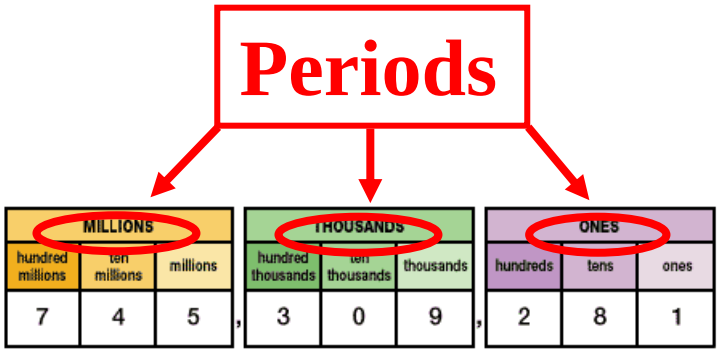
A pyramid that has a pentagonal base.

period

period



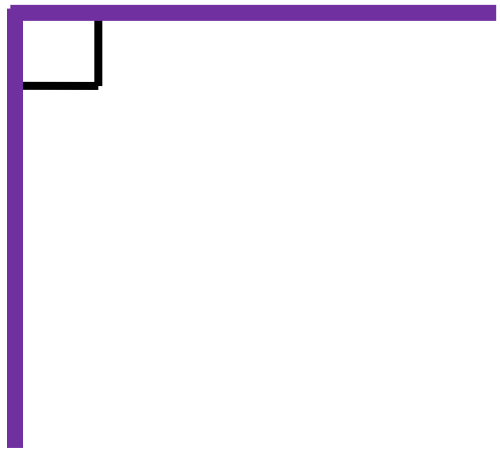
period



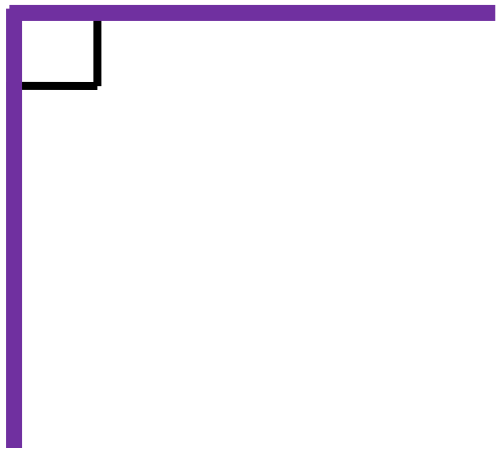
In a large number, periods are groups of 3 digits separated by commas or by spaces.

perpendicular

perpendicular



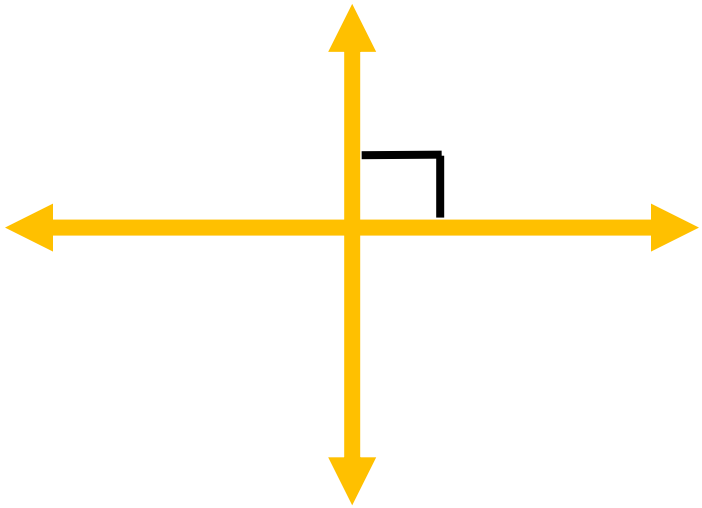
perpendicular



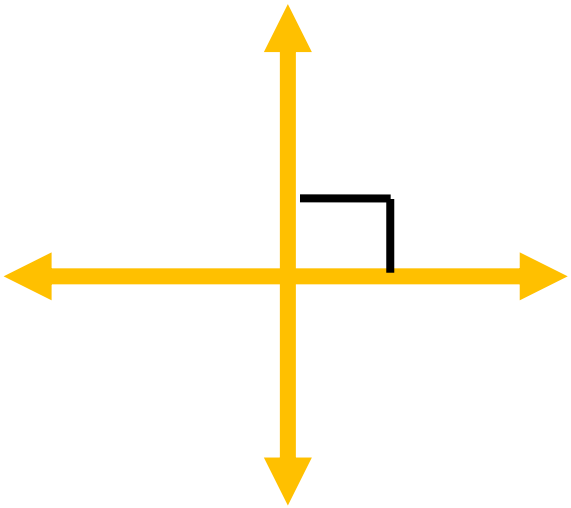
Forming right angles.

perpendicular lines

perpendicular lines



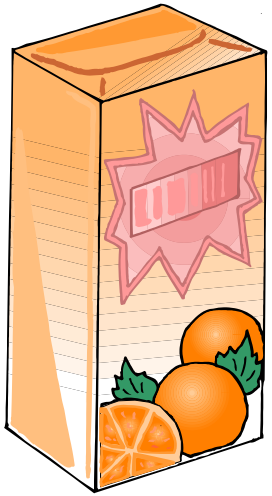
perpendicular lines



Two lines that form right angles.

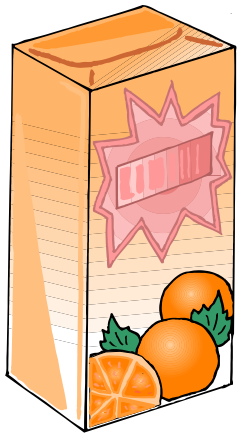
pint (pt)

pint (pt)



The orange juice carton holds 1 pint.

pint (pt)



The orange juice carton holds 1 pint.

A customary unit of capacity.
1 pint = 2 cups

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

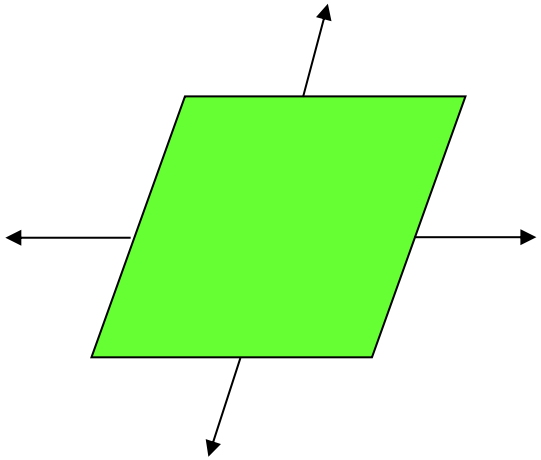
place value

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

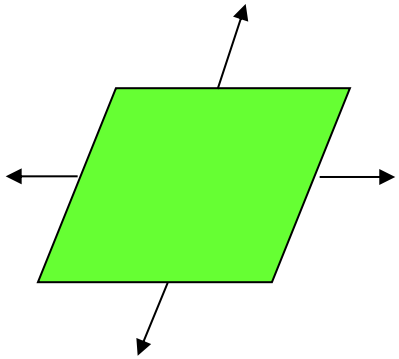
The value of the place of a digit in a number.

plane

plane



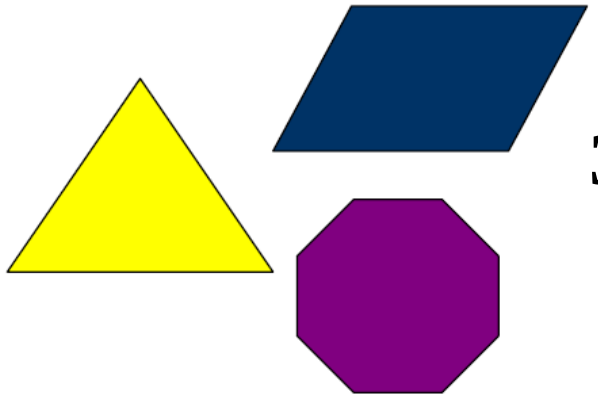
plane



A flat surface that extends infinitely in all directions.

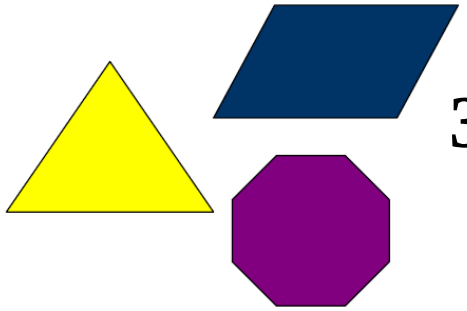
polygon

polygon



3 + sides

polygon

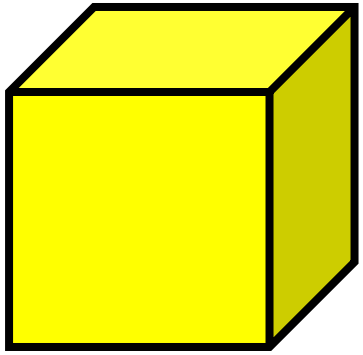


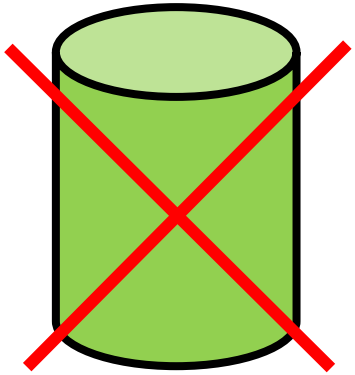
3 + sides

A closed plane figure made by line segments.

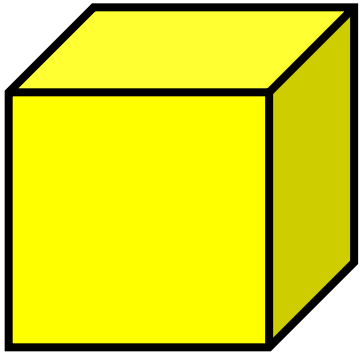
polyhedron

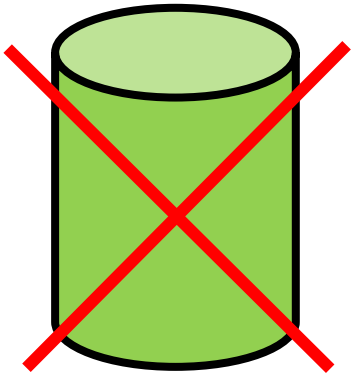
polyhedron





polyhedron

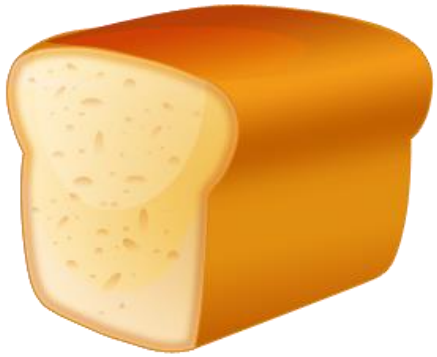




A three-dimensional figure in which all the faces are polygons. Polyhedrons have **no** curved surfaces.

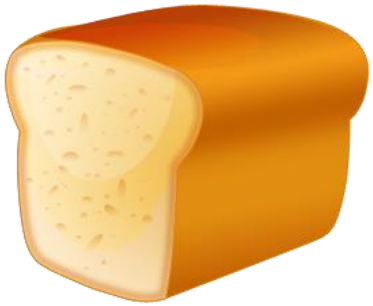
pound (lb)

pound (lb)



A loaf of bread weighs *about* 1 pound.

pound (lb)



A customary unit
of weight.
1 pound = 16 ounces

A loaf of bread weighs *about* 1 pound.

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

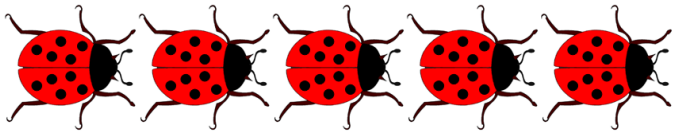
$10{,}000 = 10^4$
$1{,}000 = 10^3$
$100 = 10^2$
$10 = 10^1$
$1 = 10^0$

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

prime number

---

prime number

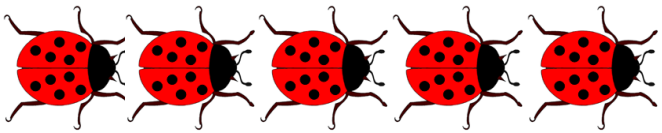


$1 \times 5 = 5$

5 is a prime number.

---

prime number



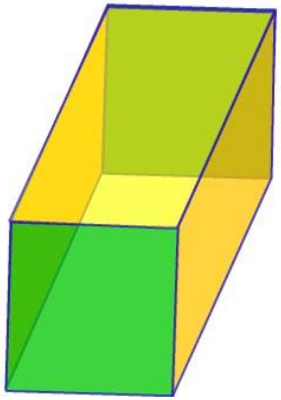
$1 \times 5 = 5$

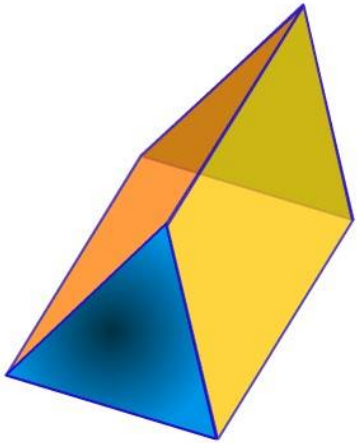
5 is a prime number.

A whole number greater than 0 that has exactly two different factors, 1 and itself.

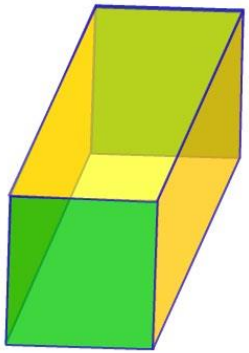
prism

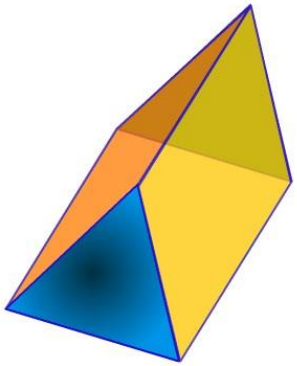
prism





prism

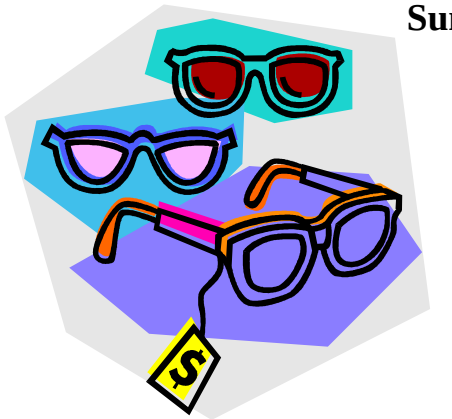




A three-dimensional figure that has two congruent and parallel faces that are polygons. The remaining faces are parallelograms.

product

product



Sunglasses are $9.95 a pair.

$$\begin{array}{r} \$\ 9.95 \\ \times \quad 3 \\ \hline \$29.85 \end{array}$$

product

product

Sunglasses are $9.95 a pair.

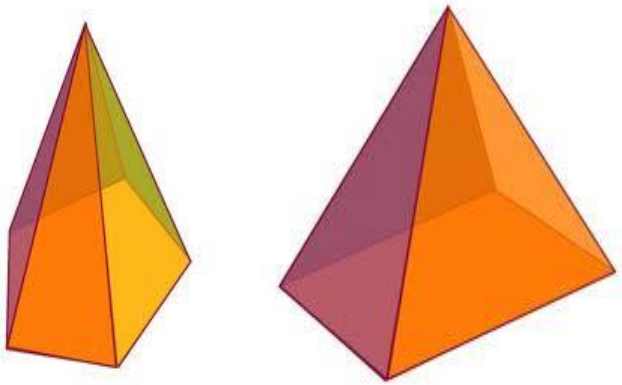
$$\begin{array}{r} \$\ 9.95 \\ \times \quad 3 \\ \hline \$29.85 \end{array}$$

product

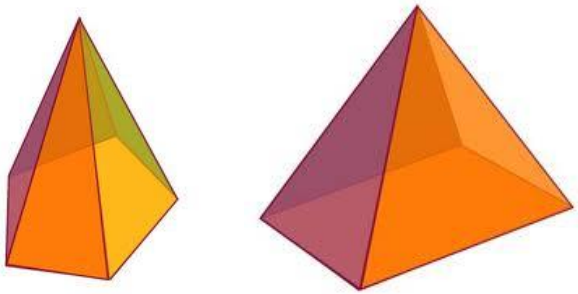
The result of multiplication.

pyramid

pyramid



pyramid

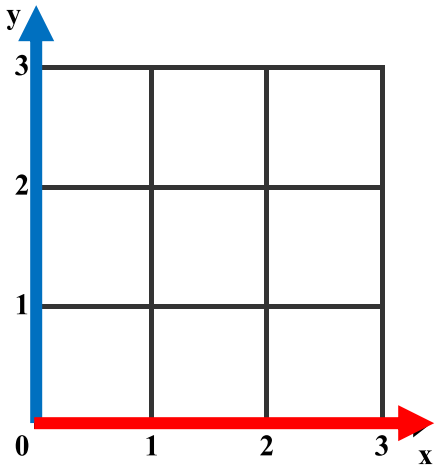


A polyhedron whose base is a polygon and whose other faces are triangles that share a common vertex.

quadrant

---

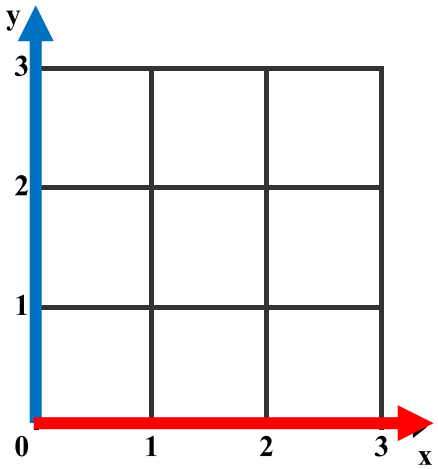
quadrant



Quadrant I

---

quadrant

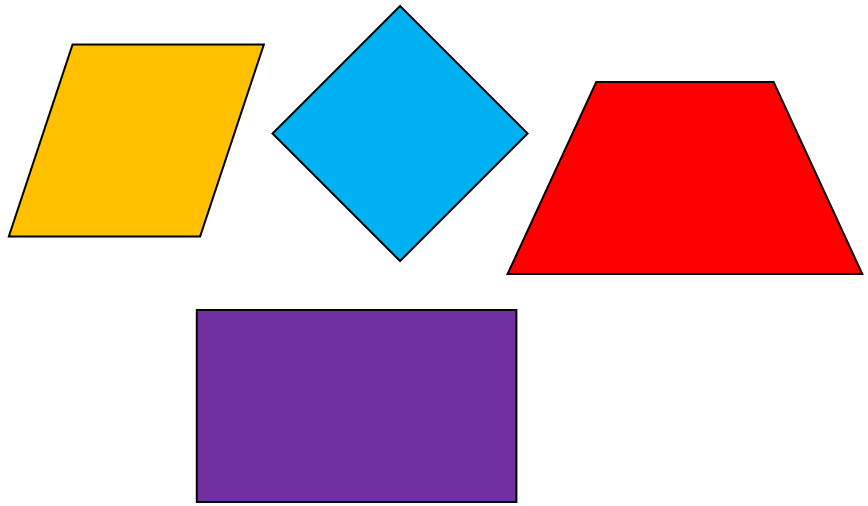


Quadrant I

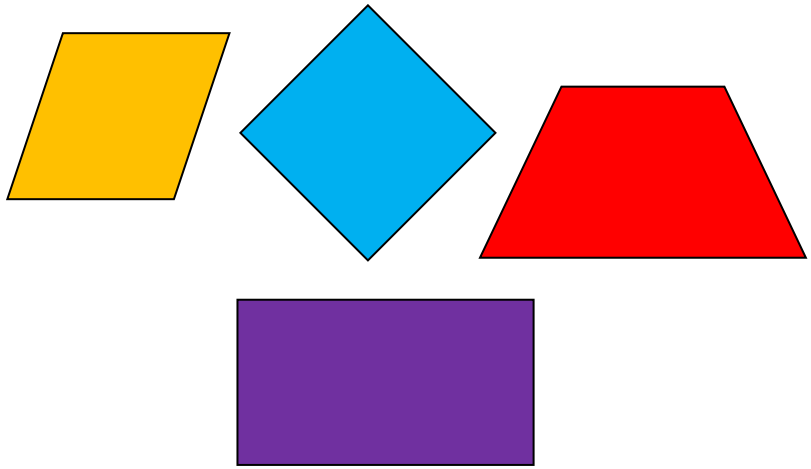
A section of a coordinate grid that is separated by the *x*-axis and *y*-axis..

quadrilateral

quadrilateral



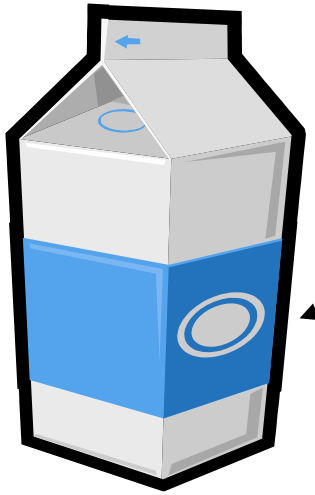
quadrilateral



A polygon
with 4 sides.

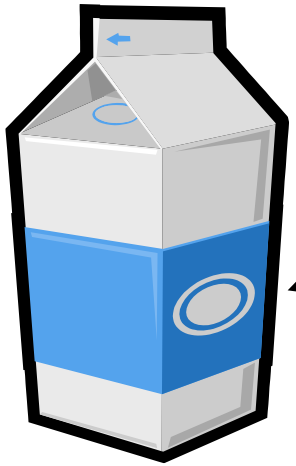
quart (qt)

quart (qt)



The milk carton holds 1 quart.

quart (qt)



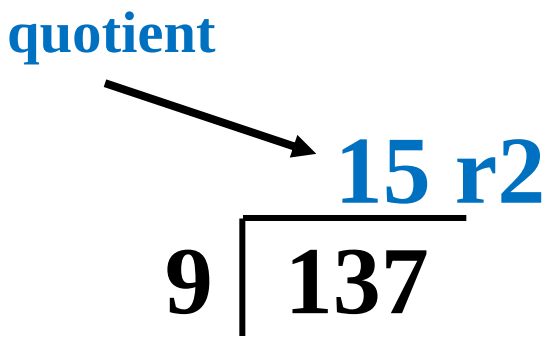
The milk carton holds 1 quart.

A customary unit of capacity.

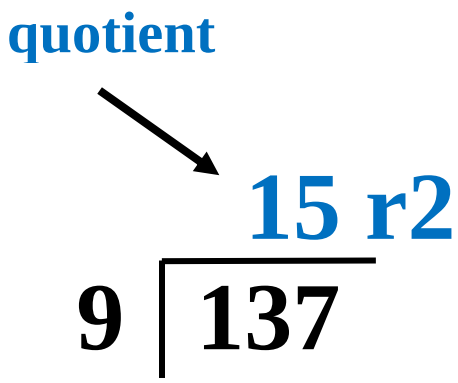
1 quart = 2 pints
or
1 quart = 4 cups

quotient

quotient



quotient



The result of the division of one quantity by another.

reasonableness

reasonableness

What is the product of 57 and 34?

A. 1,938 C. 5,738

B. 3,208 D. 8,698

Use estimation to eliminate unreasonable choices.

60 × 30 =1,800

B, C, and D are not close to 1,800.

The answer is A.

reasonableness

What is the product of 57 and 34?

A. 1,938 C. 5,738

B. 3,208 D. 8,698

Use estimation to eliminate unreasonable choices.

60 × 30 = 1,800

B, C, and D are not close to 1,800.

The answer is A.

An answer that is based on good number sense.

rectangle

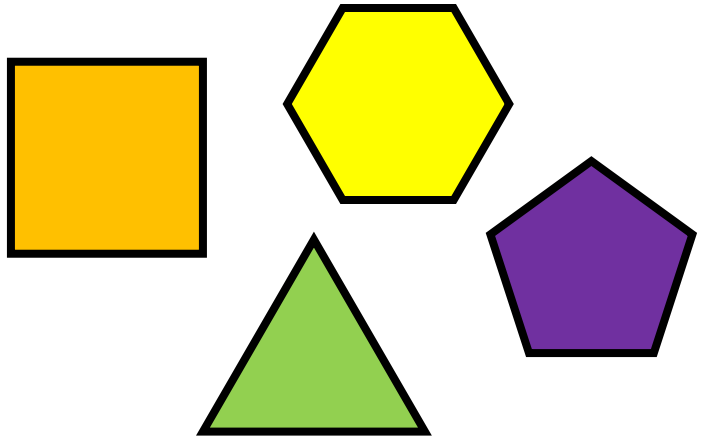
rectangle

rectangle

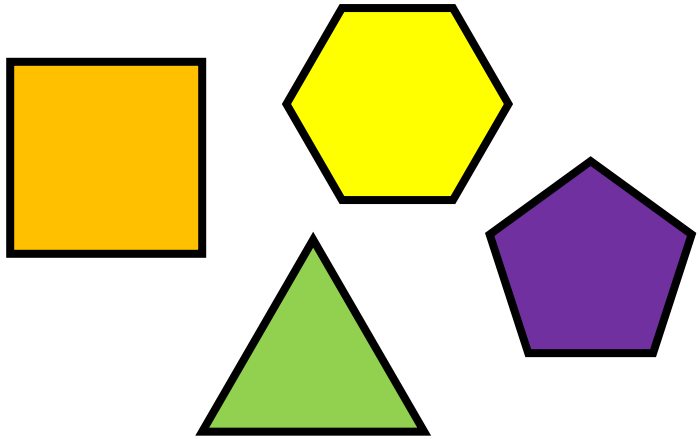
A quadrilateral with
2 pairs of congruent,
parallel sides and
4 right angles.

regular polygon

regular polygon



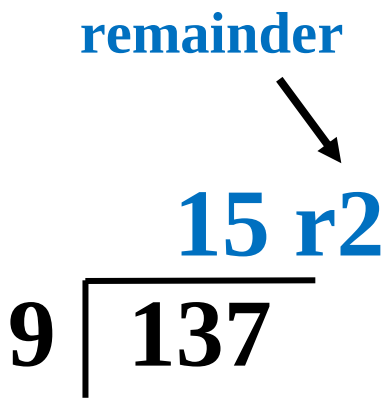
regular polygon



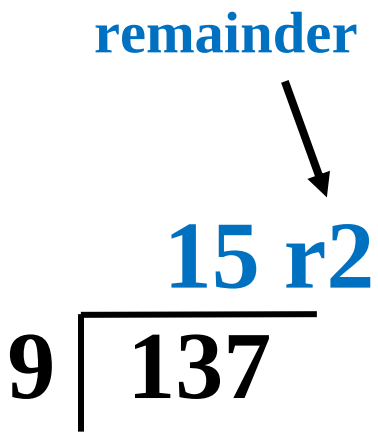
A polygon with all sides the same length and all angles the same measure.

remainder

remainder



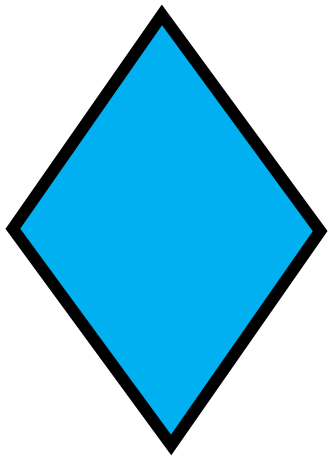
remainder



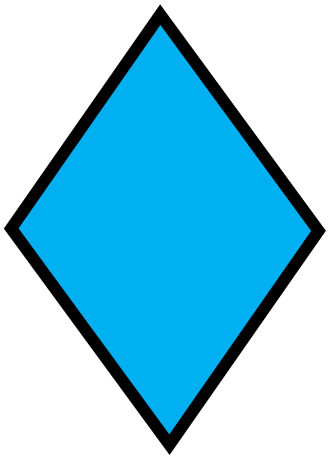
The number that is left over after a whole number is divided equally by another.

rhombus

rhombus



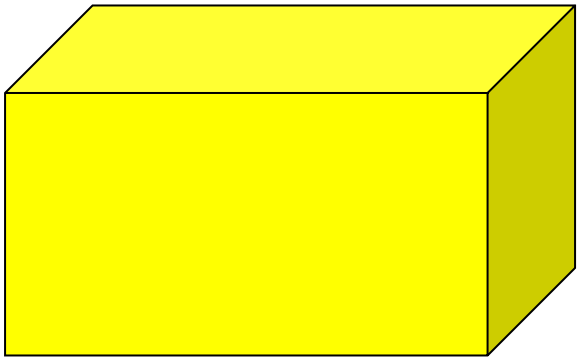
rhombus



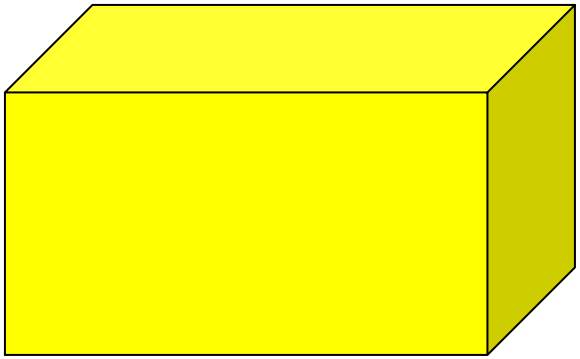
A quadrilateral with all
4 sides equal in length.

right rectangular prism

right rectangular prism



right rectangular prism

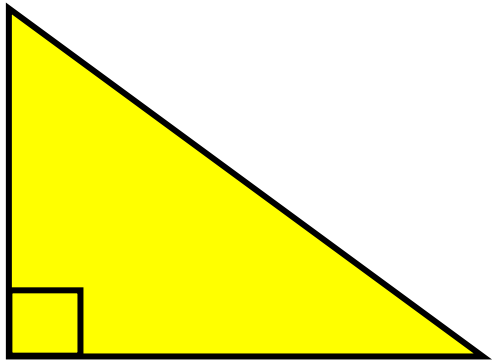


A prism with 6 rectangular faces where the lateral edge is perpendicular to the plane of the base.

right triangle

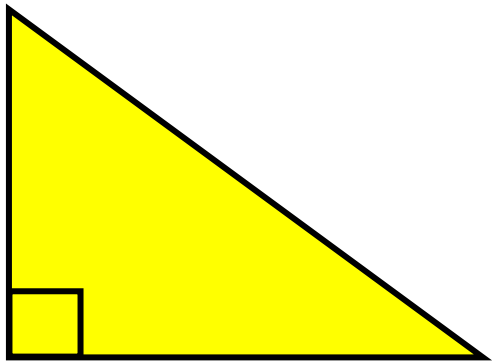
---

right triangle



---

right triangle



A triangle that has one 90º angle.

rounding

rounding 45.357 → 45.4

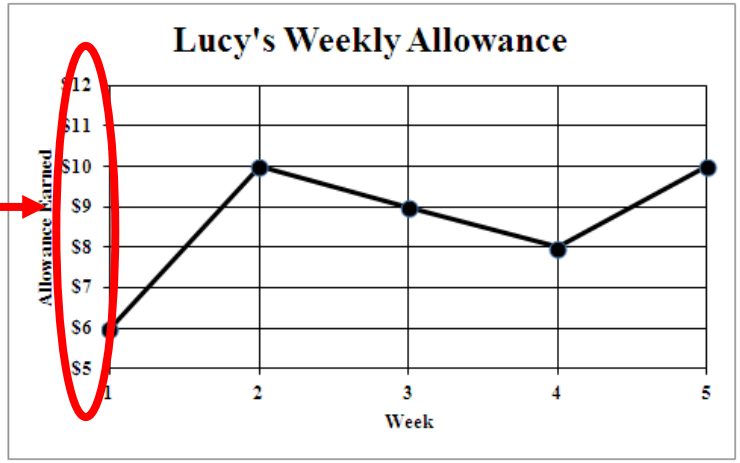
rounding 45.357 → 45.4

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

scale

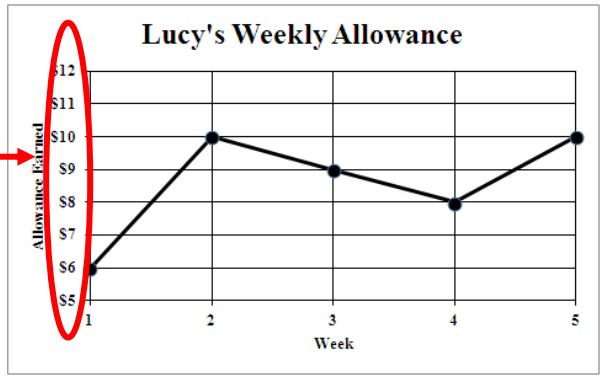
scale

scale from
5 to 12



scale

scale from
5 to 12

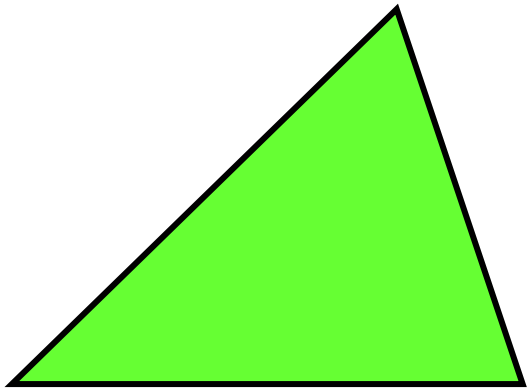


A series of numbers at regular intervals that help label a graph.

scalene triangle

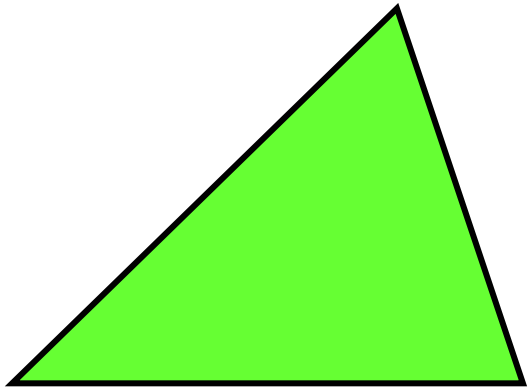
---

scalene triangle



---

scalene triangle

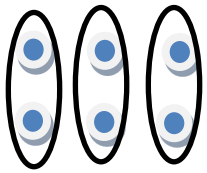


A triangle that has no equal sides.

scaling

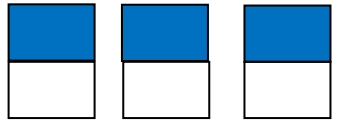
scaling

3×2



Note: Product will be greater than 3.

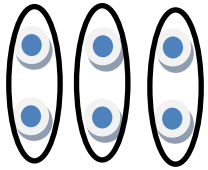
$3 \times \frac{1}{2}$



Note: Product will be less than 3.

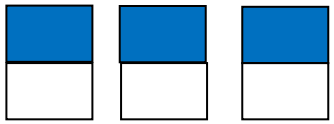
scaling

3×2



Note: Product will be greater than 3.

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



Note: Product will be 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.

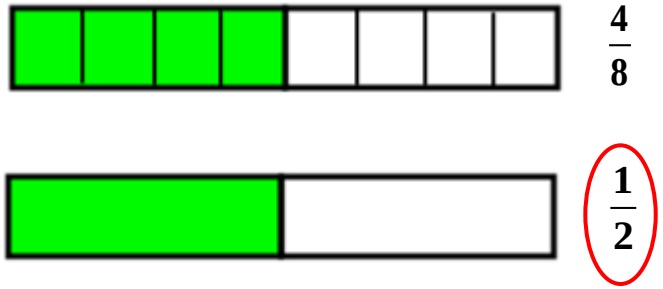
simplest form

A fraction in simplest form has the fewest possible pieces.

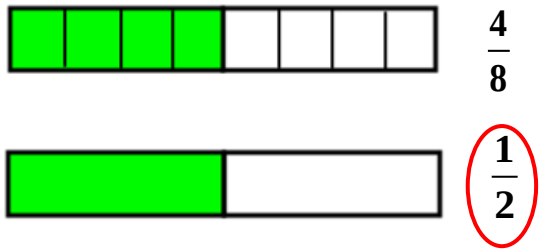
A fraction is in simplest form when the greatest common factor of the numerator and denominator is 1.

simplify

simplify



simplify

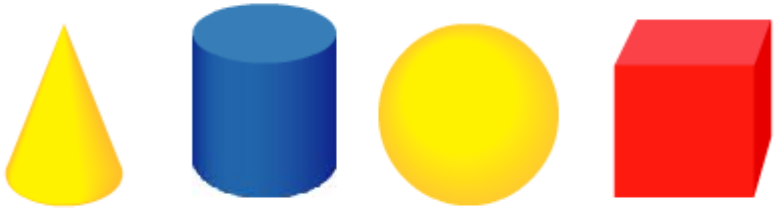


To express a fraction in simplest form.

solid figure

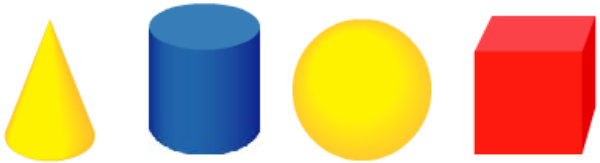
---

solid figure



---

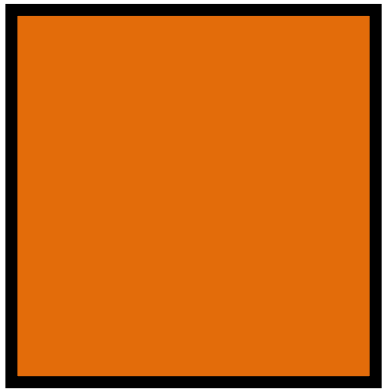
solid figure



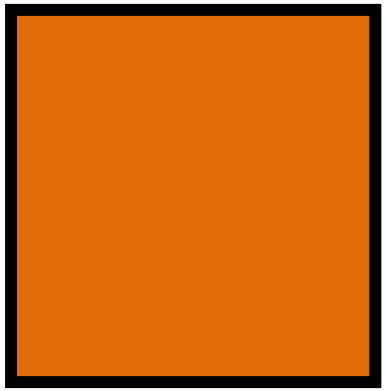
Three-dimensional figure that has length, width, and height.

square

square



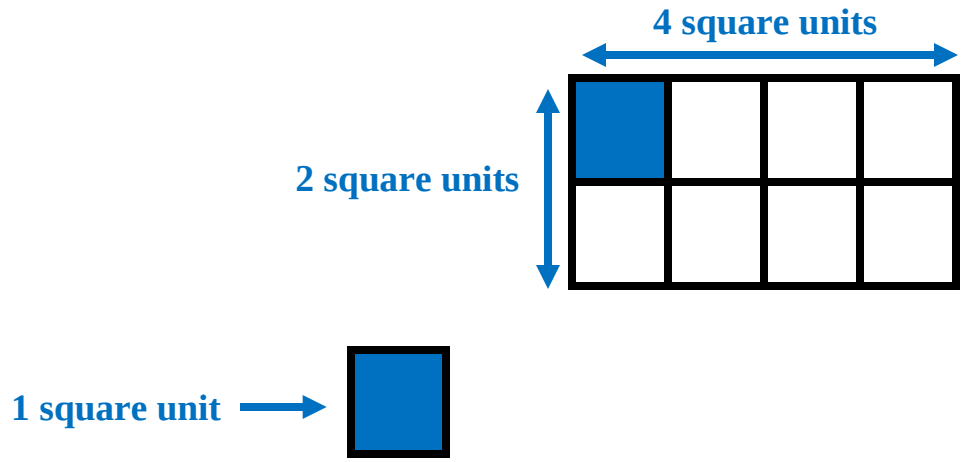
square



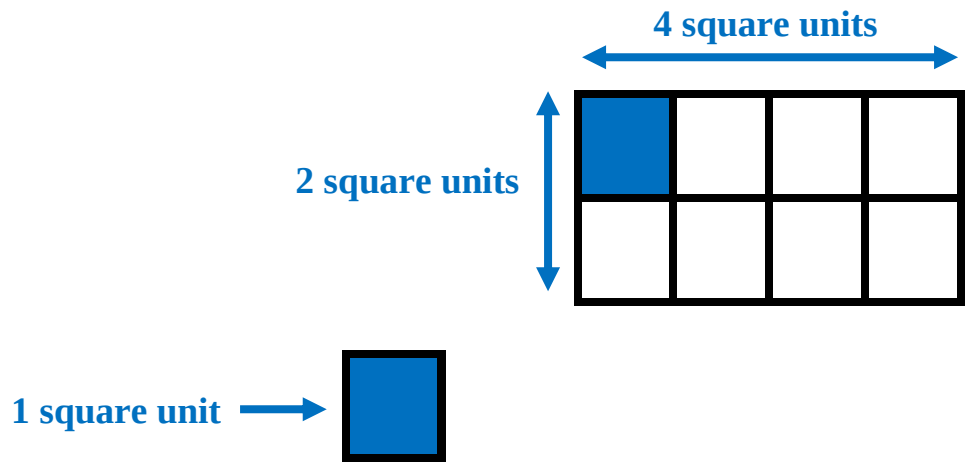
A parallelogram with
4 equal angles AND
4 equal sides.

square unit

square unit



square unit



A unit, such as square centimeter or square inch, used to measure area.

standard form

---

standard form

354,973

---

standard form

354,973

A number written with one digit for each place value. (also known as base-ten numeral form)

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**

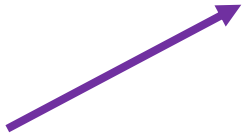
In subtraction, the subtrahend is the number being subtracted.

sum

---

sum

45.3 + 92.9 = 138.2

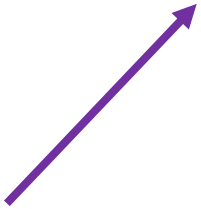


sum

---

sum

45.3 + 92.9 = 138.2

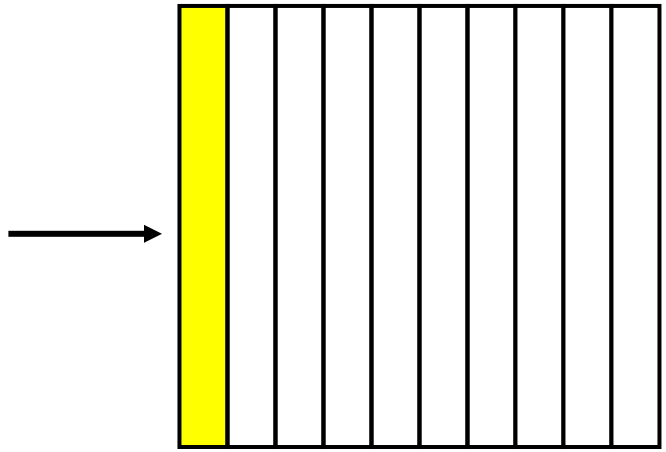


sum

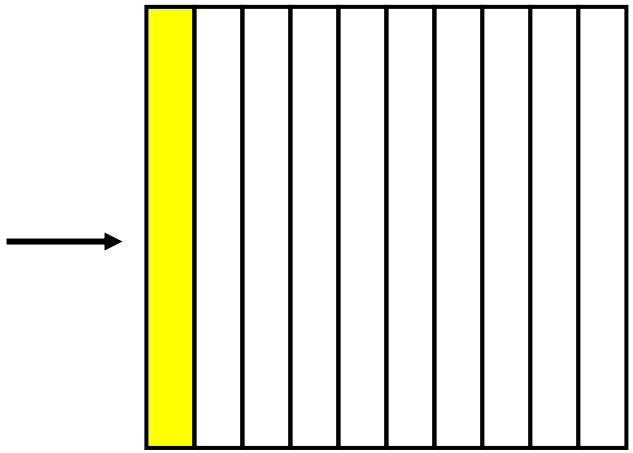
The result of addition.

tenth

tenth



tenth



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

tenths

tenths

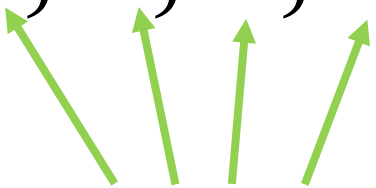
tenths

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

term

term

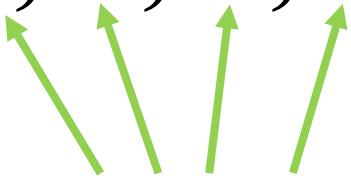
3, 5, 7, 9…



terms

term

3, 5, 7, 9…

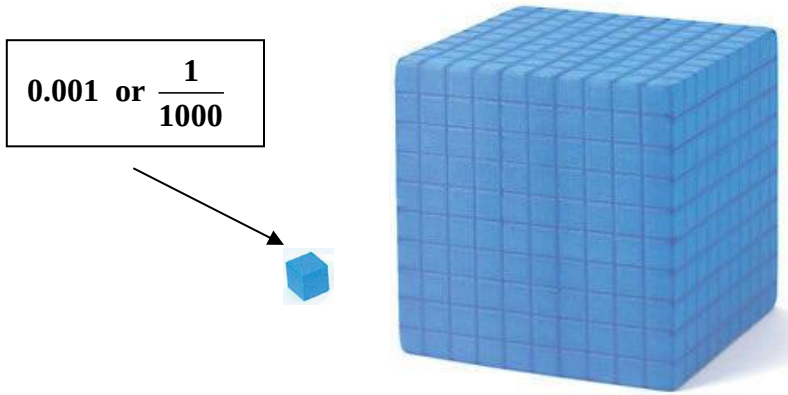


terms

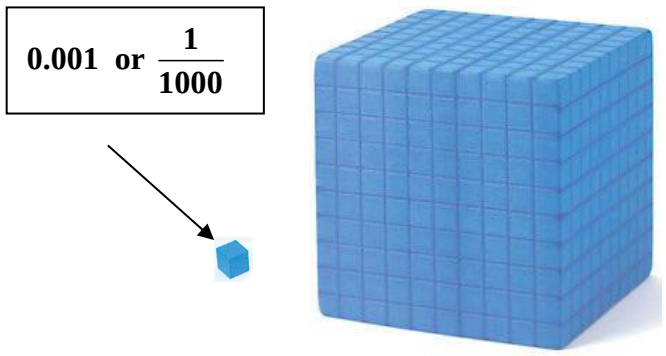
A component of
a sequence.
A term in a sequence
is any number
in that sequence.

thousandth

thousandth



thousandth



One of 1000 equal parts of a whole.

thousandths

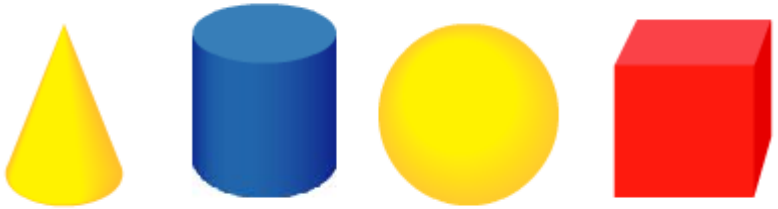
thousandths 0.276

thousandths 0.276

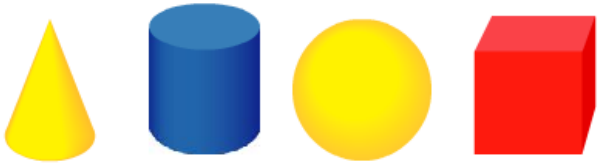
Thousandths is the name of the next place to the right of hundredths in the decimal numeration system.

three-dimensional figure

three-dimensional figure



three-dimensional figure



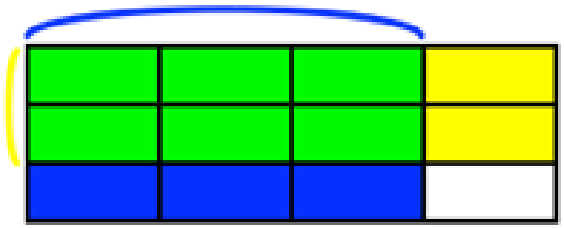
A solid figure that has length, width, and height.

tiling

tiling

$\frac{3}{4}$

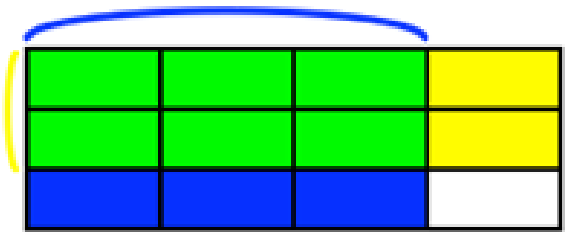
$\frac{2}{3}$



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

tiling

$\frac{3}{4}$



$\frac{2}{3}$ 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

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

ton (T)

ton (T)

A small car weighs about 1 ton.

ton (T)

A small car weighs about 1 ton.

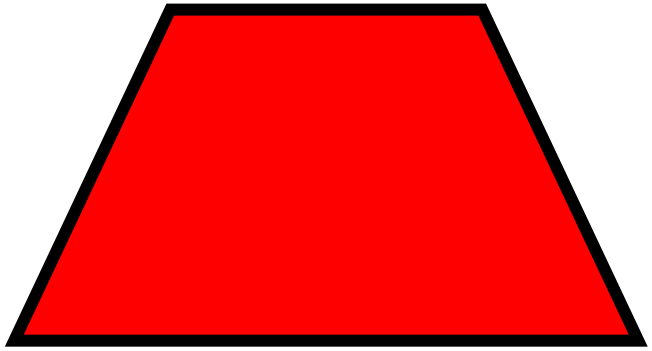
A customary unit of weight.
1 ton (T) = 2,000 pounds

A metric ton (t) is a unit of mass equal to 1,000 kilograms (about 2,200 pounds).

trapezoid

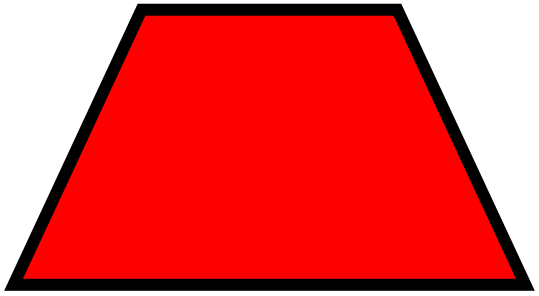
---

trapezoid



---

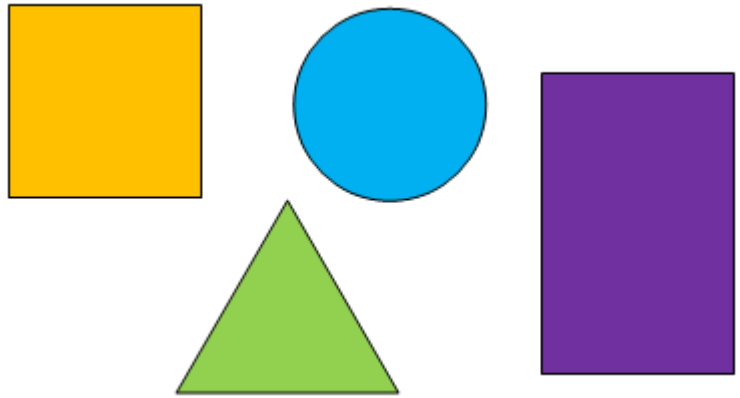
trapezoid



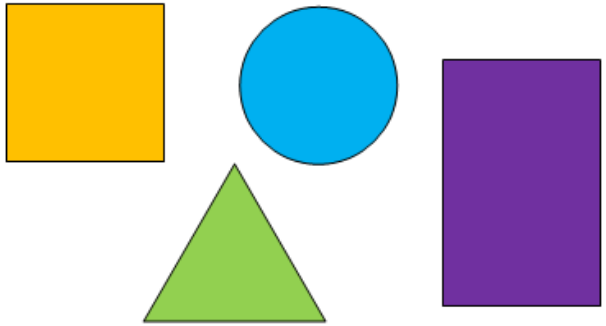
A quadrilateral with
one pair of parallel sides
and one pair of sides
that are not parallel.

two-dimensional figure

two-dimensional figure



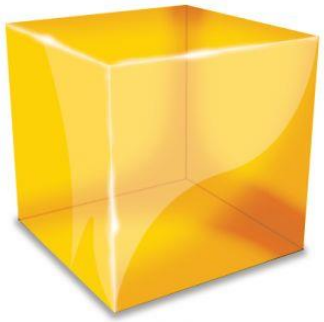
two-dimensional figure



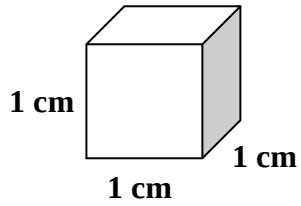
A plane, flat figure that has length and width.

unit cube

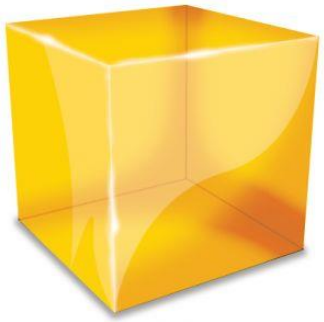
unit cube



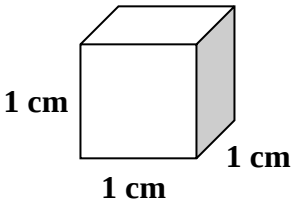
Volume of 1 cubic (cm^3) centimeter



unit cube



Volume of 1 cubic (cm^3) centimeter



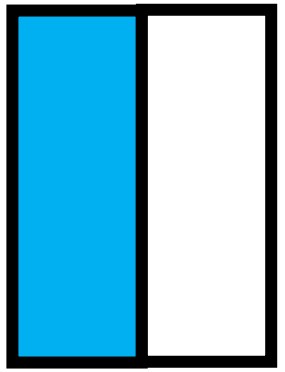
A precisely fixed quantity used to measure volume.

unit fraction

---

unit fraction

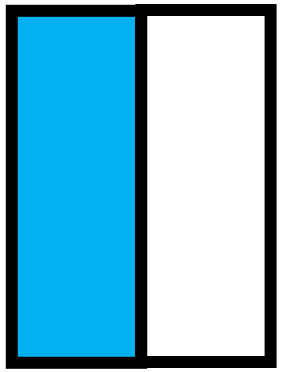
$\frac{1}{2}$



---

unit fraction

$\frac{1}{2}$



A fraction that has 1 as its numerator. A unit fraction names 1 equal part of a whole.

unlike denominators

unlike denominators

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

unlike denominators

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

Denominators that are not equal.

variable

---

variable $5 \times b = 10$

b **is a variable worth 2.**

---

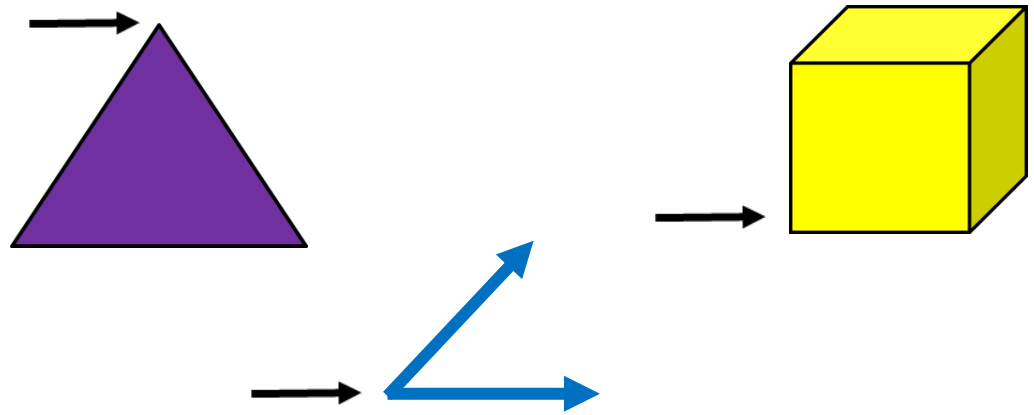
variable $5 \times b = 10$

b **is a variable worth 2.**

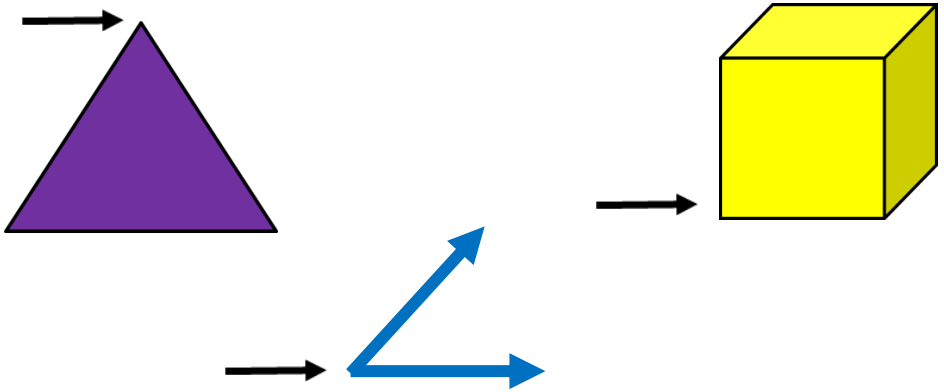
A letter or symbol that represents a number.

vertex

vertex



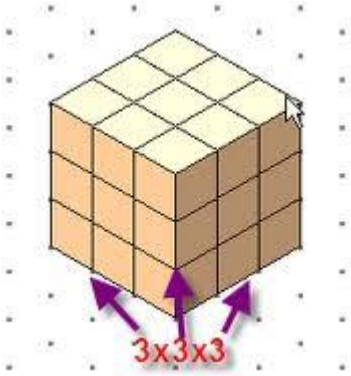
vertex



The point at which two line segments, lines, or rays meet to form an angle. (plural - vertices)

volume

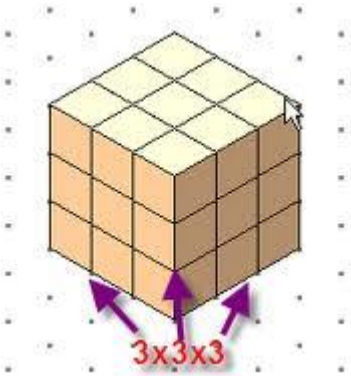
volume



Volume =

27 cubic units

volume



Volume =

27 cubic units

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

weight

weight

weight

The measure of how heavy something is.

whole numbers

---

whole numbers

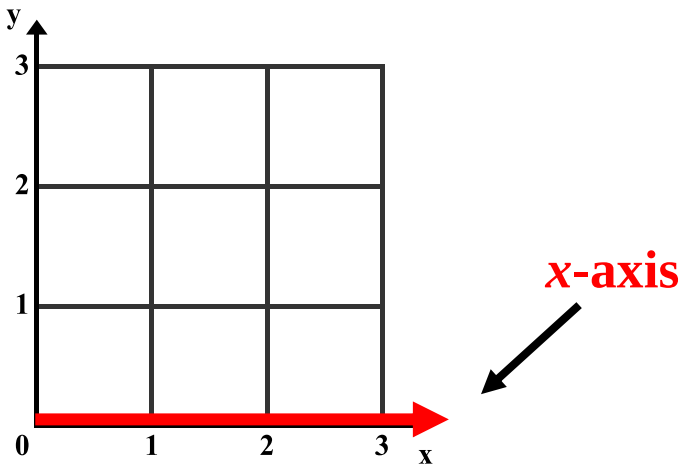
---

whole numbers

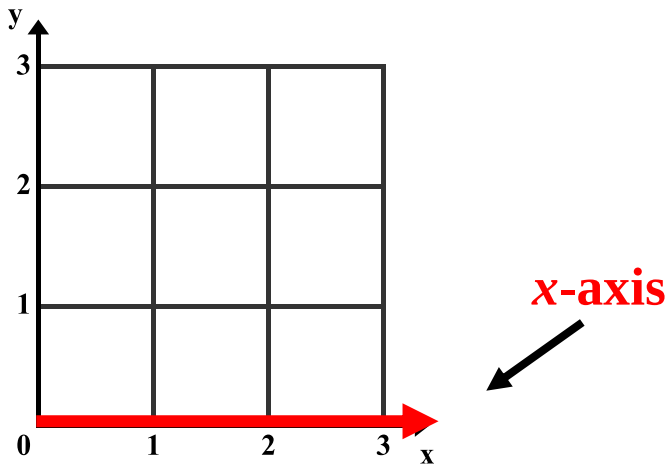
Whole numbers are 0 and the counting numbers 1, 2, 3, 4, 5, 6, and so on.

x-axis

x-axis



x-axis



The horizontal axis in a coordinate plane.

x-coordinate

---

x-coordinate

(7, 2)

x-coordinate

---

x-coordinate

(7, 2)

x-coordinate

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

yard (yd)

yard (yd)

A door is *about* 1 yard wide.

yard (yd)

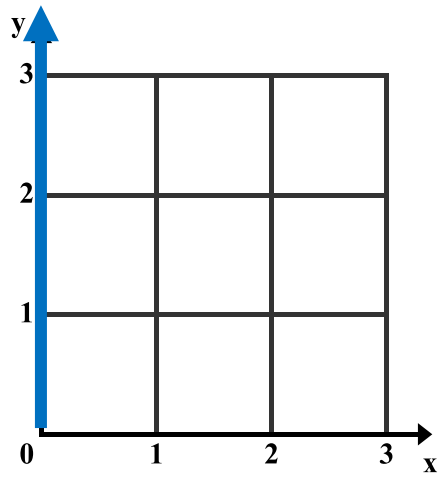
A door is *about* 1 yard wide.

A customary unit of length.
1 yard = 3 feet or 36 inches

y-axis

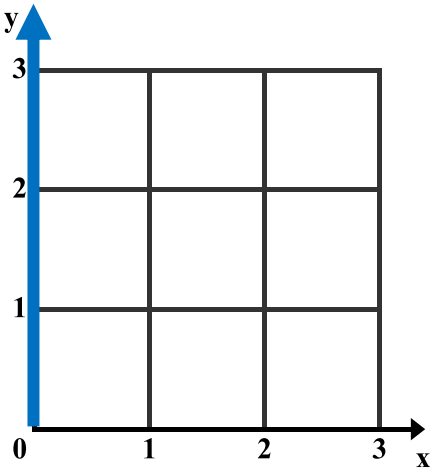
y-axis

y-axis



y-axis

y-axis



The vertical axis in a coordinate plane.

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.