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

**Revised: 4/13/18**

## 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
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Student Reference Books, Everyday Mathematics, 2007.
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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**.

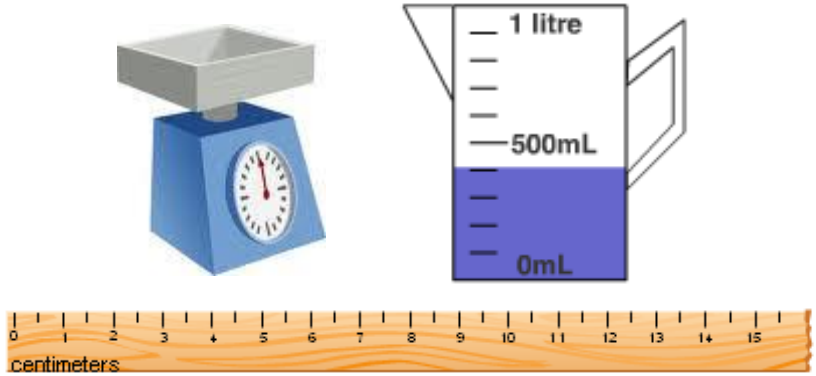
# meter (m)

A standard unit of length in the metric system.

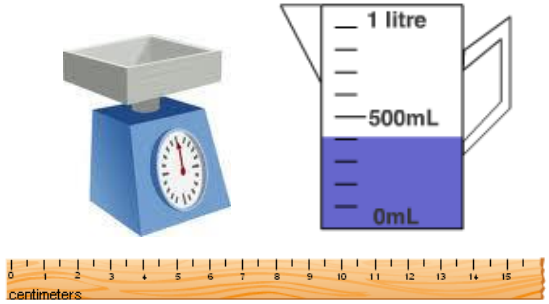
**A baseball bat is *about* 1 meter long.**

# 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.**

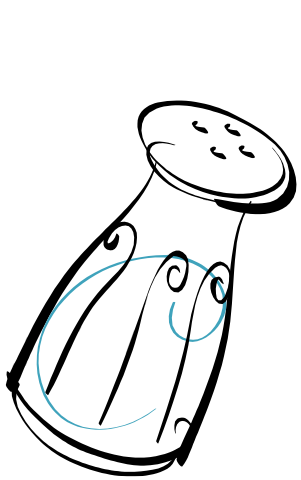
# mile

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

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

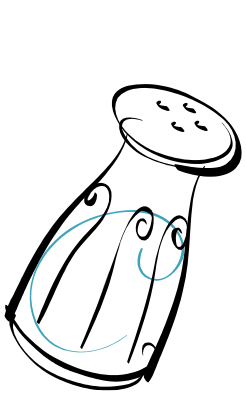
# milligram (mg)

milligram (mg)



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

milligram (mg)



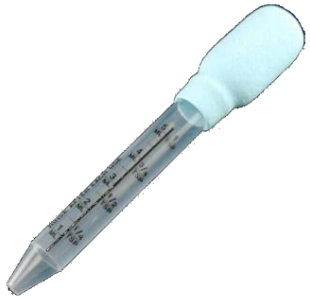
The mass of a single grain of salt is about 1 milligram.

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

# milliliter (mL)

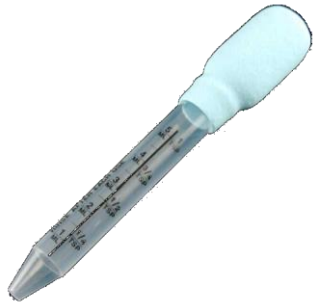
**This holds about 10 drops or 1 milliliter.**

# milliliter (mL)



**This holds about 10 drops or 1 milliliter.**

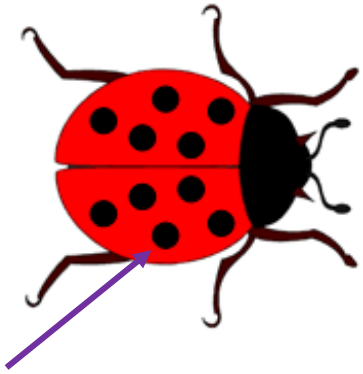
# milliliter (mL)



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

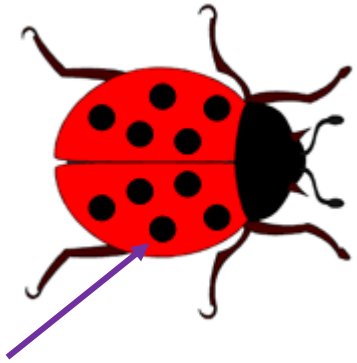
# millimeter (mm)

# millimeter (mm)



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

# millimeter (mm)

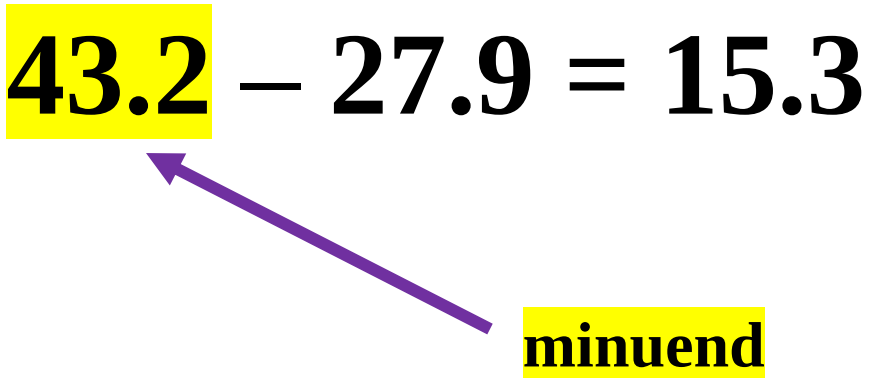


**The dot on the ladybug is *about* 1 millimeter wide.**

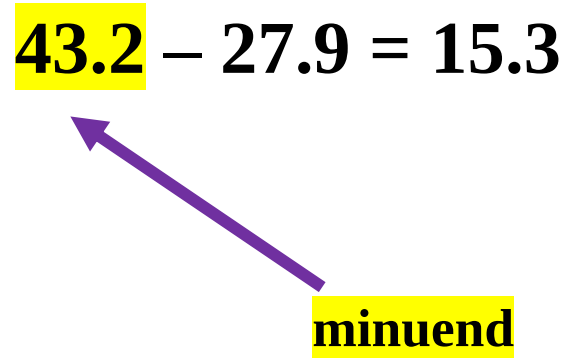
A metric unit of length.
1,000 millimeters = 1 meter

# minuend

# minuend




# minuend

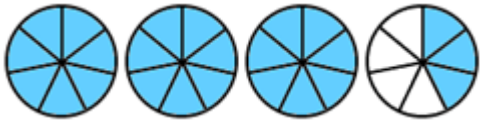



The quantity from which another quantity, the subtrahend, is to be subtracted.

# mixed number

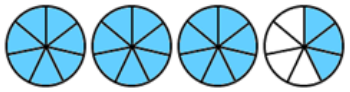
mixed number

$3\frac{3}{7}$



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**

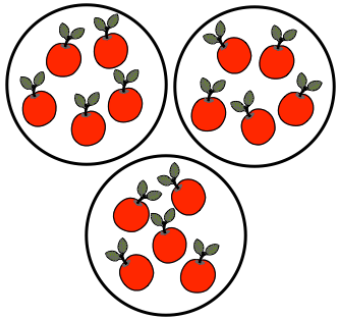
## Multiplicative Identity Property of 1

**1 group of 3 = 3**
**1 × 3 = 3**

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

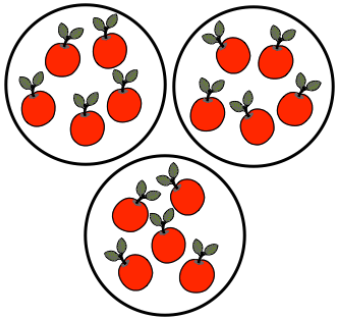
# multiply

# multiply



**3 × 5 = 5 + 5 + 5**

# multiply

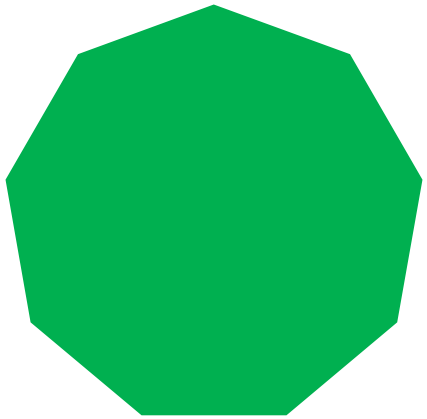


**3 × 5 = 5 + 5 + 5**

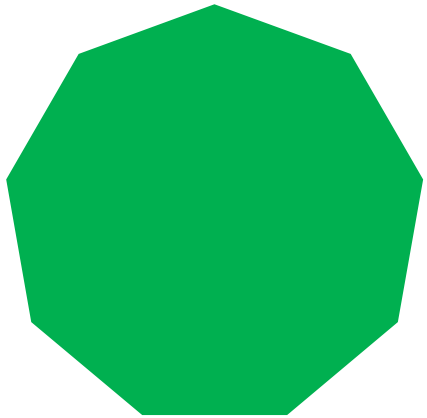
The operation of repeated addition of the same number.

# nonagon

# nonagon



# nonagon



A polygon
with 9 sides.

# number line

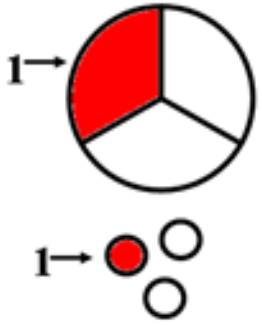
# number line

# number line

A diagram that represents numbers as points on a line.

# numerator

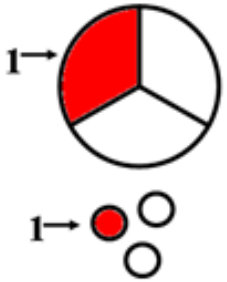
numerator



$\frac{1}{3}$

- 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

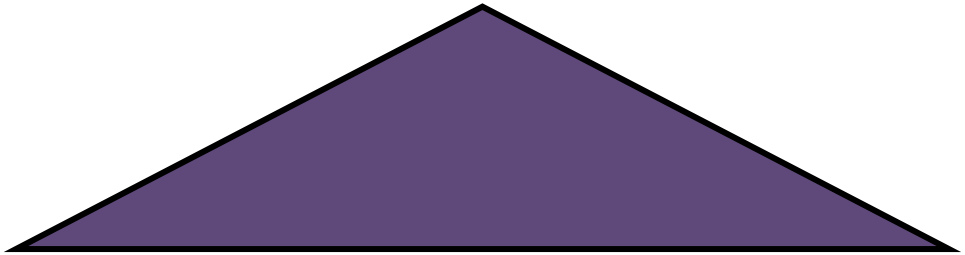
# numerical expression

5 + 9

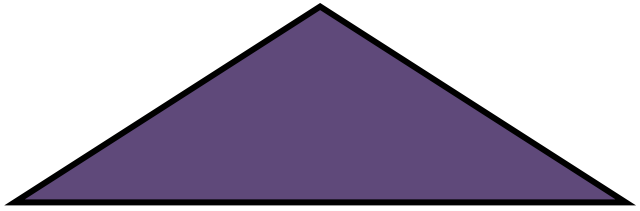
A mathematical statement including numbers and operations.

# obtuse triangle

# obtuse triangle



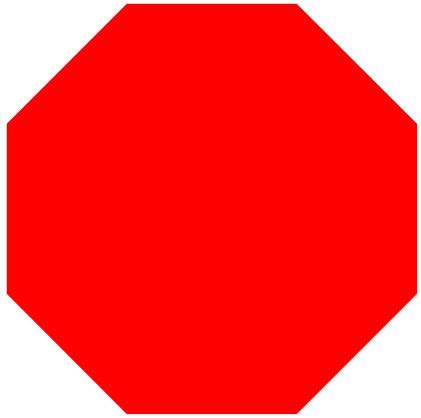
# obtuse triangle



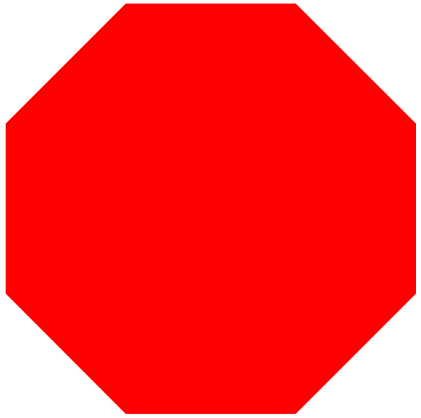
A triangle that has an angle greater than 90º (obtuse angle).

# octagon

# octagon



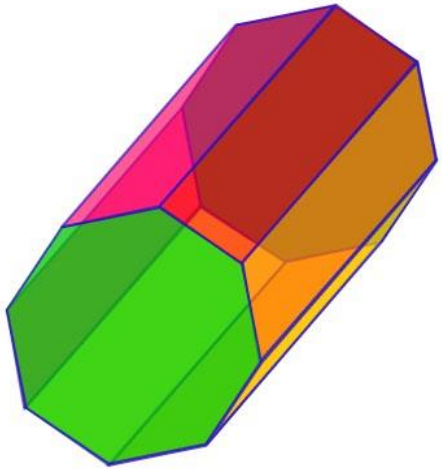
# octagon



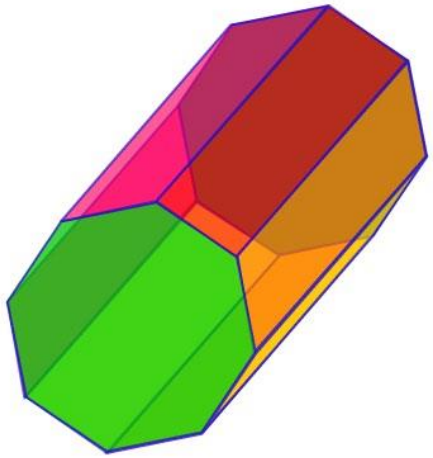
A polygon
with 8 sides.

# 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.

**P**arenthesis
**E**xponents
**M**ultiply/**D**ivide
**A**dd/**S**ubtract

# Order of Operations

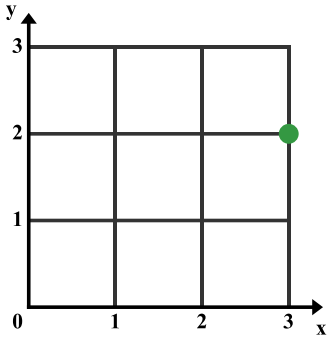
How to do a math problem with more than one operation in the correct order.

**P**arenthesis
**E**xponents
**M**ultply/**D**ivide
**A**dd/**S**ubtract

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

# ordered pair

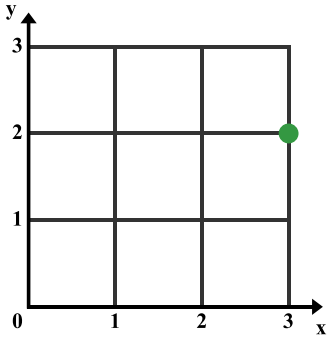
# ordered pair




**(3, 2)**

$(x\ ,y)$

# ordered pair



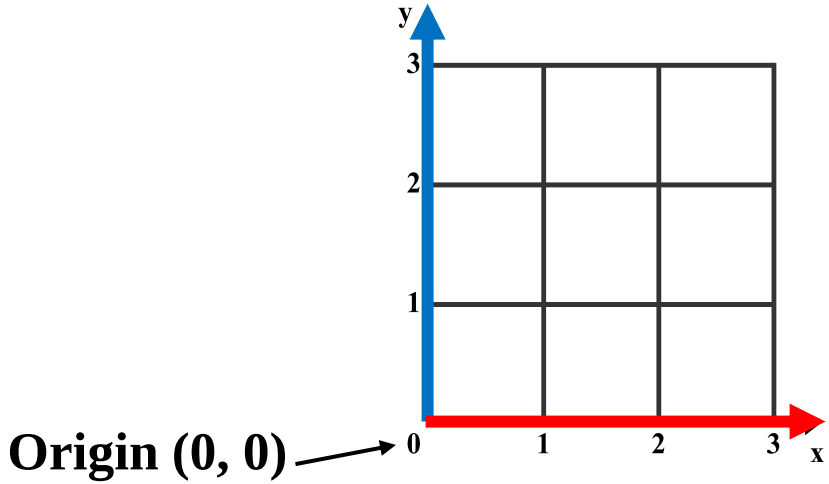

**(3, 2)**

$(x\ ,y)$

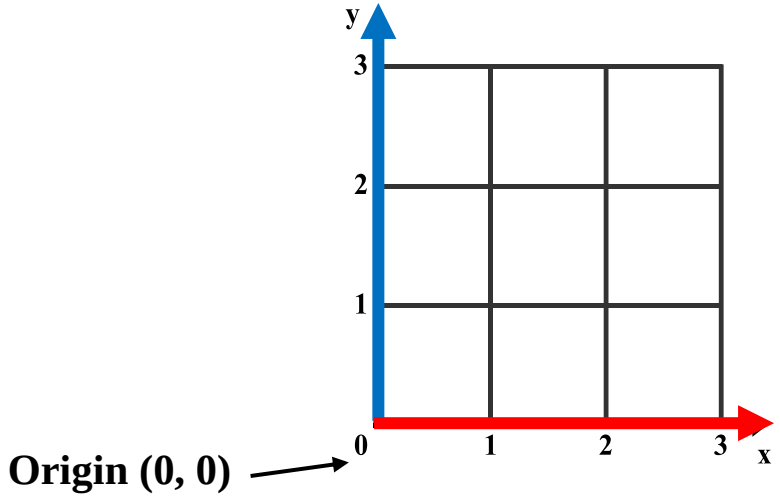
A pair of numbers that gives the coordinates of a point on a grid in this order (horizontal coordinate, vertical coordinate).

# 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)

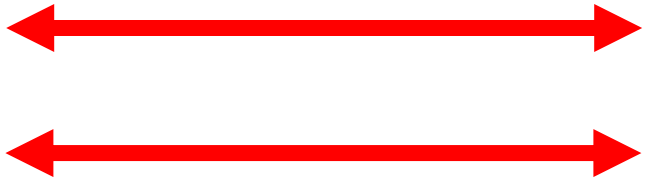
**A strawberry weighs *about* 1 ounce.**

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

# parallel lines

# parallel lines

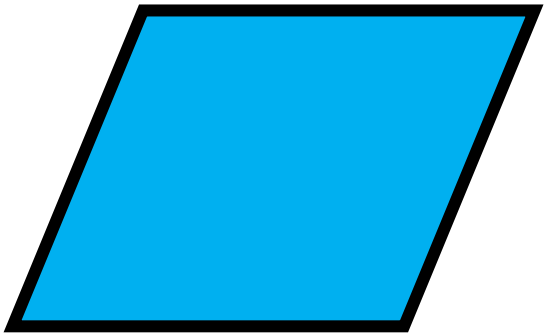
# parallel lines



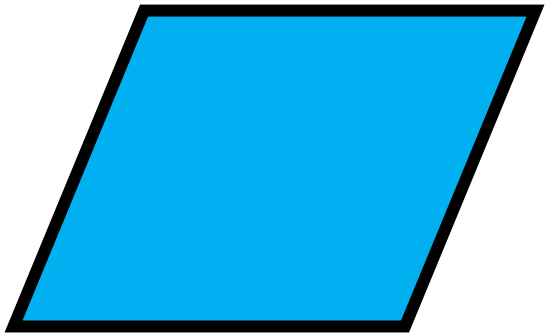
Lines that are always the same distance apart. They do not intersect.

# parallelogram

# parallelogram



# parallelogram



A quadrilateral with 2 pairs of parallel and congruent sides.

# parentheses

# parentheses

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

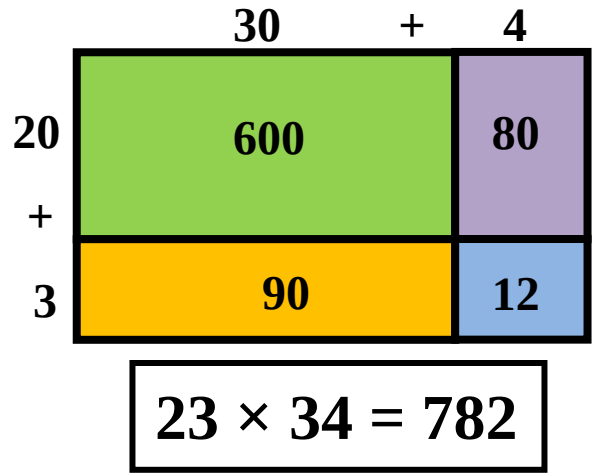
# parentheses

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

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

# partial product

## partial product

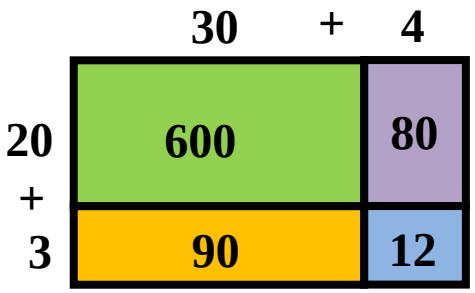



$$23 \times 34 = 782$$

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

partial products

## partial product




$$23 \times 34 = 782$$

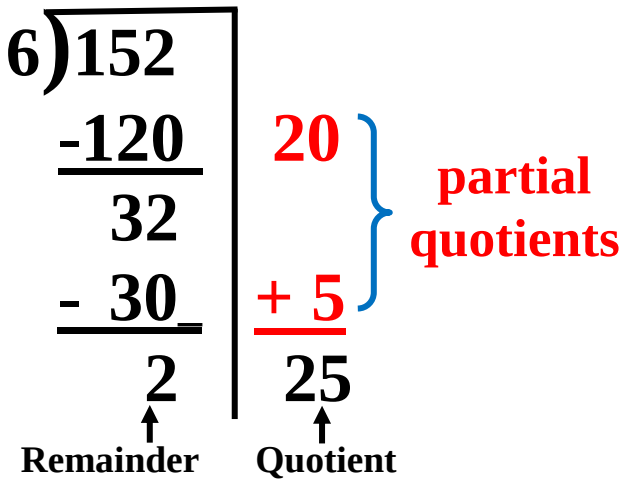
$$\begin{array}{r} 34 \\ \times\ 23 \\ \hline 600 \\ 80 \\ 90 \\ +\ 12 \\ \hline 782 \end{array}$$

partial products

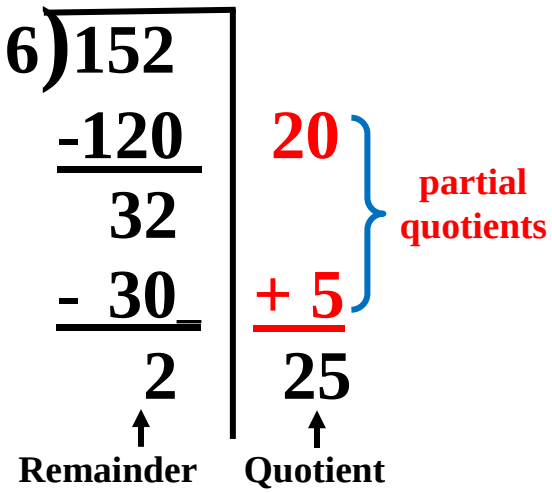
A method of multiplying in which the value of each digit in a factor is multiplied separately, and then the partial products are added together.

# 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

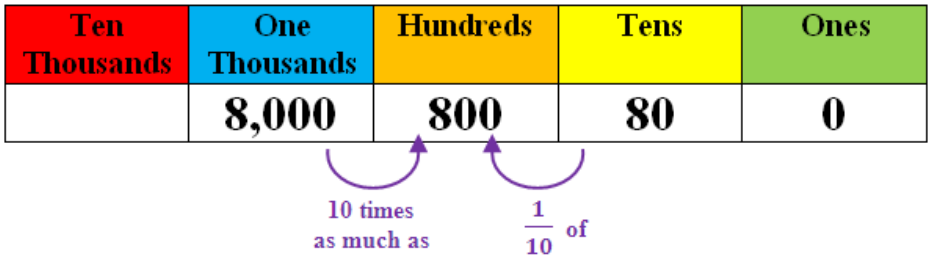
# pattern

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

10 times as much as

$\frac{1}{10}$ of

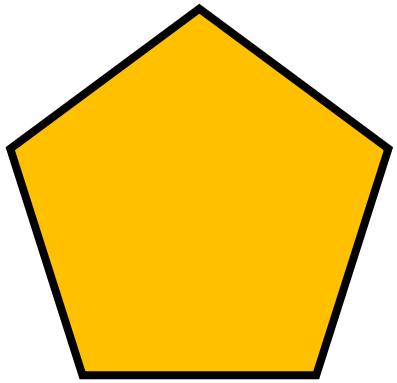
# pattern



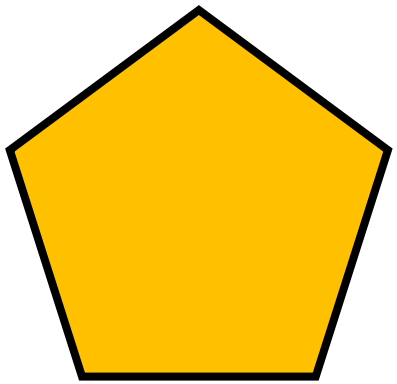

A repeating or growing sequence. An ordered set of numbers arranged according to a rule.

# pentagon

# pentagon



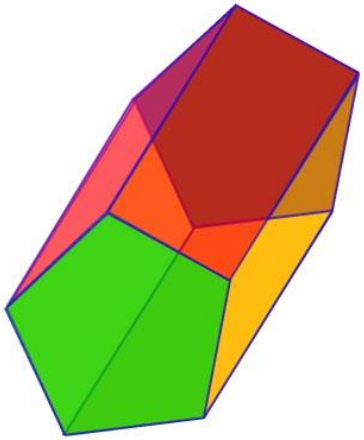
# pentagon



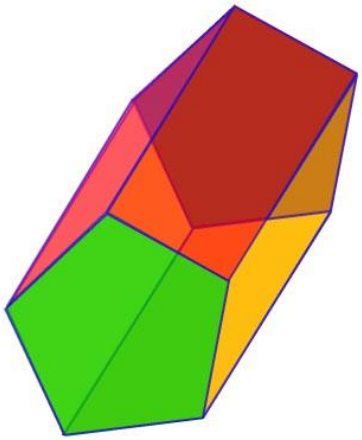
A polygon with 5 sides.

# pentagonal prism

## pentagonal prism



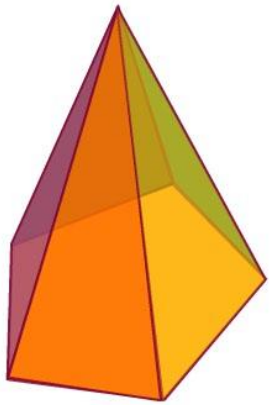
## pentagonal prism



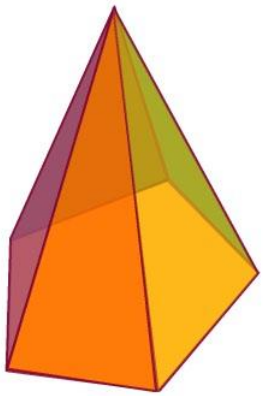
A prism whose two bases are pentagons.

# pentagonal pyramid

**pentagonal pyramid**



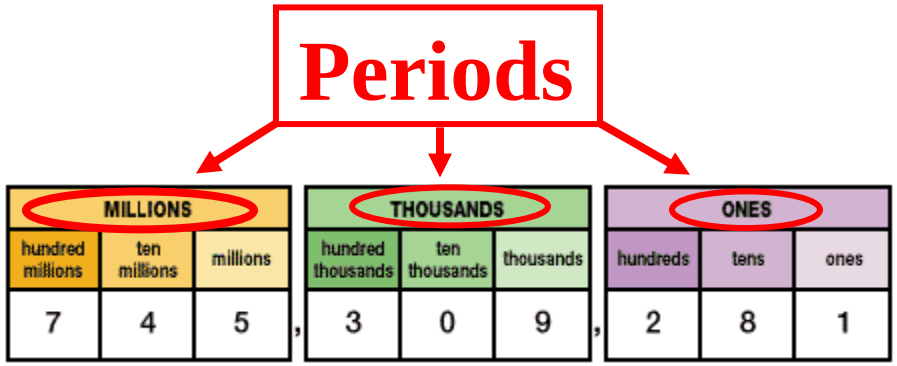
**pentagonal pyramid**



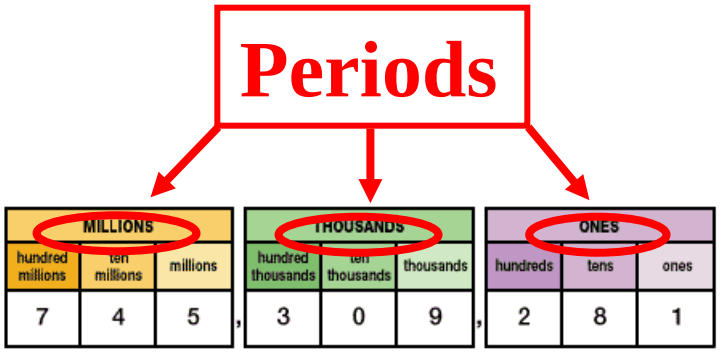
A pyramid that has a pentagonal base.

# period

# period



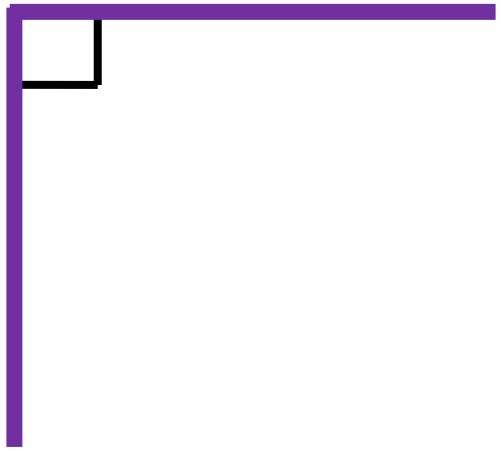

# period



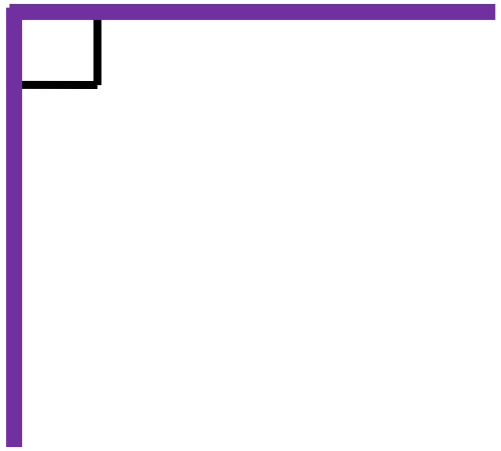

In a large number, periods are groups of 3 digits separated by commas or by spaces.

# perpendicular

**perpendicular**



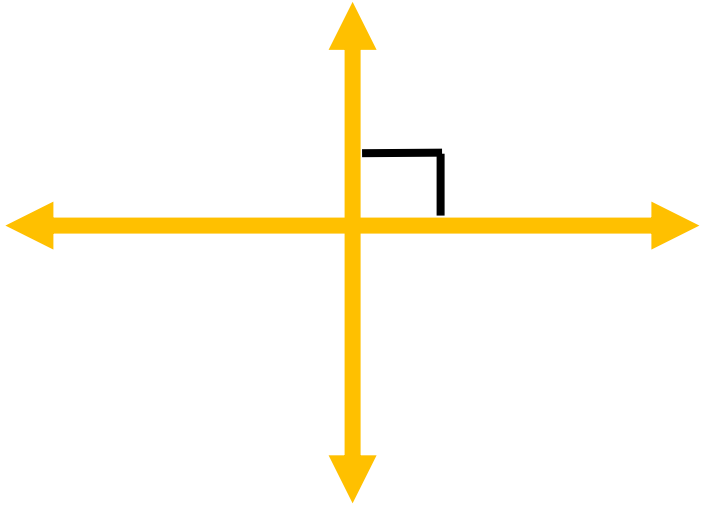
**perpendicular**



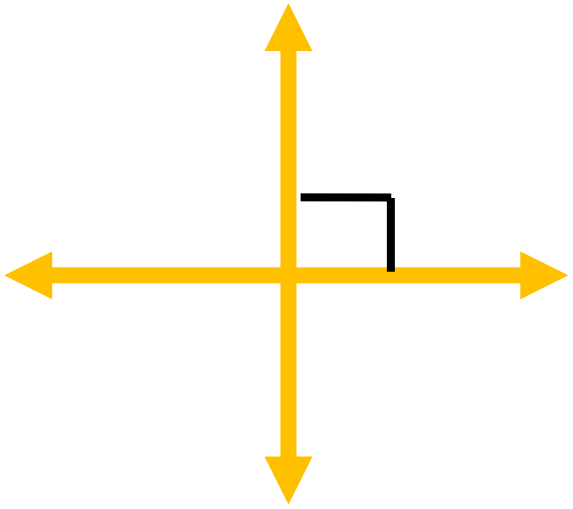
Forming right angles.

# perpendicular lines

**perpendicular lines**



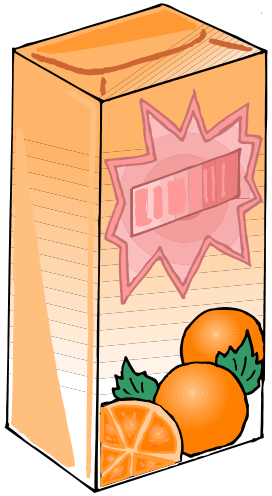
**perpendicular lines**



Two lines that form right angles.

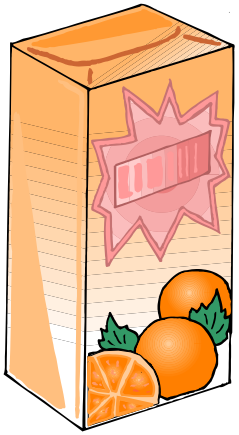
# pint (pt)

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 |

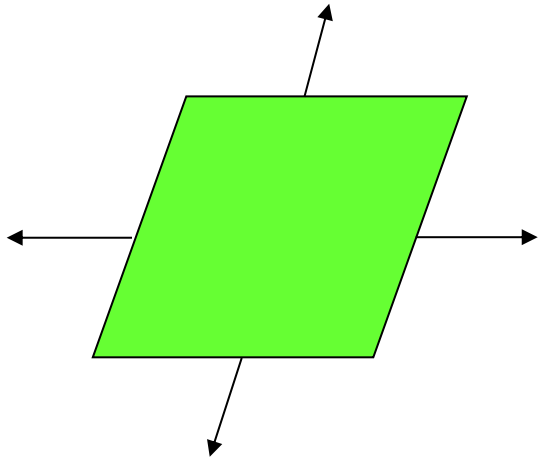
# place value

| 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 |

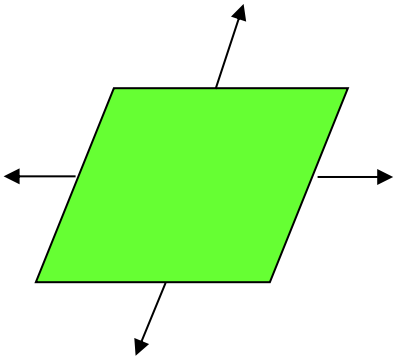
The value of the place of a digit in a number.

# plane

# plane



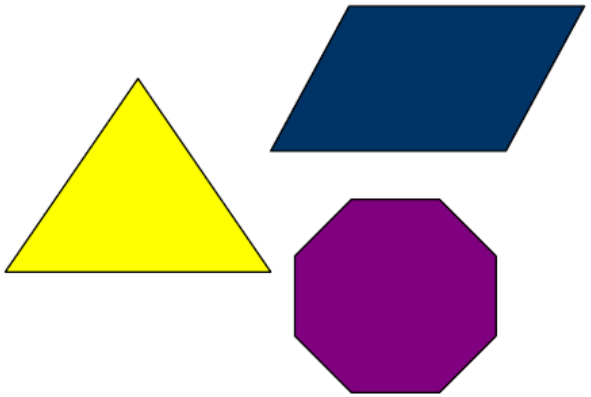
# plane



A flat surface that extends infinitely in all directions.

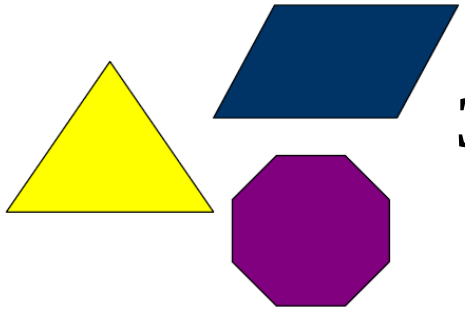
# polygon

# polygon



**3 + sides**

# polygon

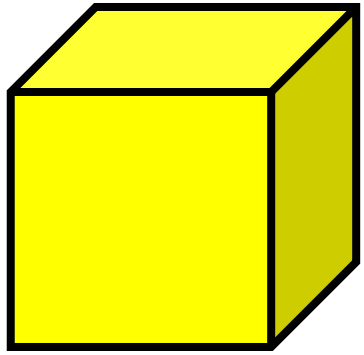


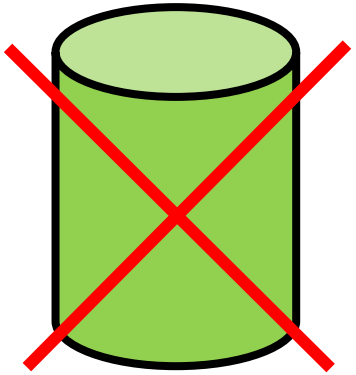
**3 + sides**

A closed plane figure made by line segments.

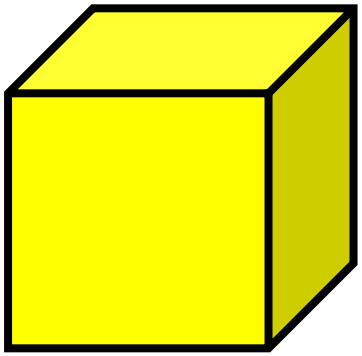
# polyhedron

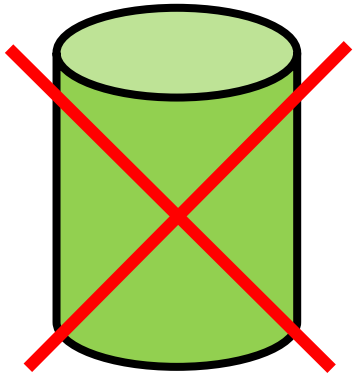
polyhedron





polyhedron

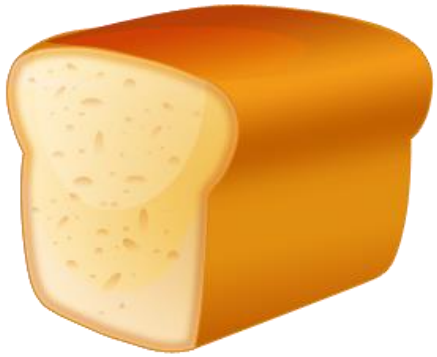




A three-dimensional figure in which all the faces are polygons. Polyhedrons have **no** curved surfaces.

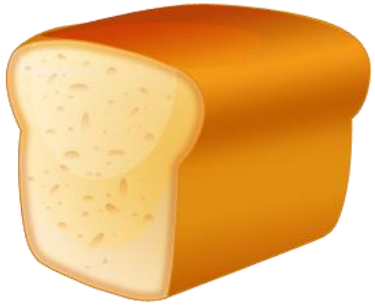
# pound (lb)

# 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

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

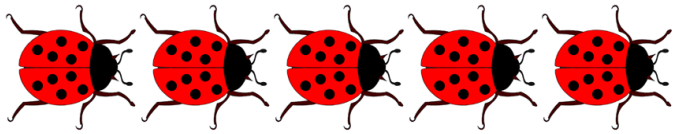
# powers of ten

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

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

# prime number

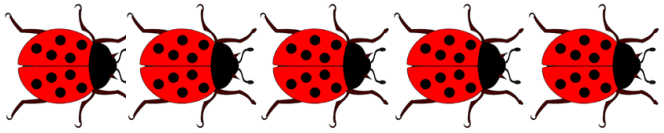
prime number



$1 \times 5 = 5$

**5 is a prime number.**

prime number



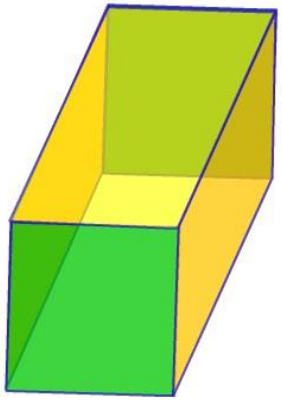
$1 \times 5 = 5$

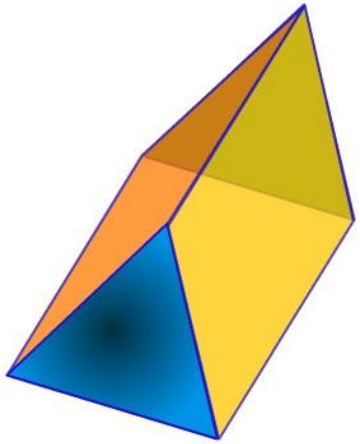
**5 is a prime number.**

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

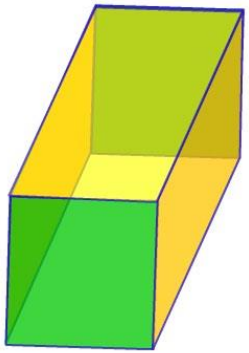
# prism

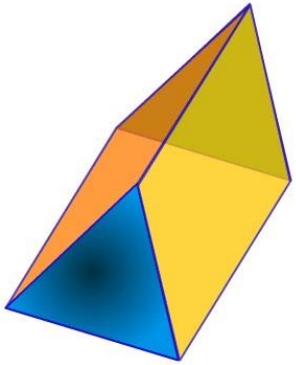
prism





prism

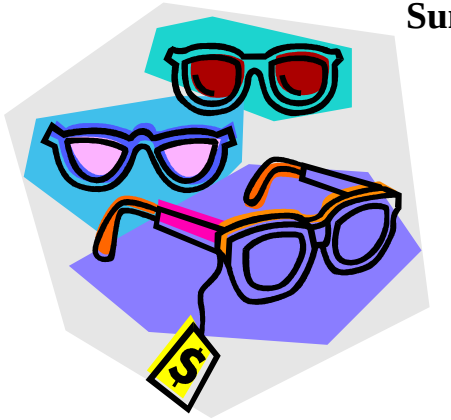




A three-dimensional figure that has two congruent and parallel faces that are polygons. The remaining faces are parallelograms.

# product

# product



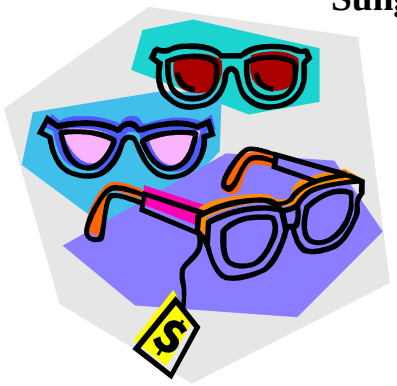
**Sunglasses are $9.95 a pair.**

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

**product**

# product

**Sunglasses are $9.95 a pair.**



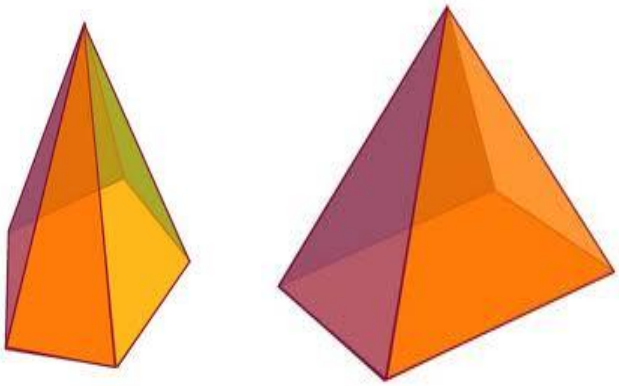
$$\begin{array}{r} \$\ 9.95 \\ \times \quad 3 \\ \hline \$29.85 \end{array}$$

**product**

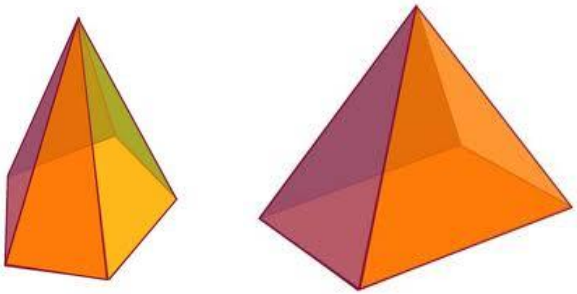
The result of multiplication.

# pyramid

# pyramid



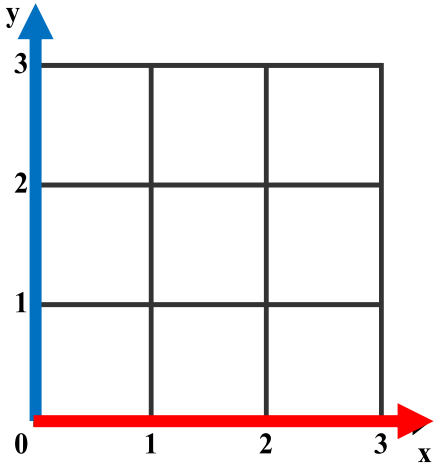
# pyramid



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

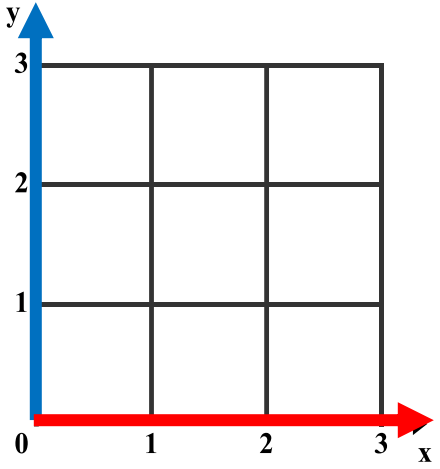
# quadrant

# quadrant




**Quadrant I**

# quadrant



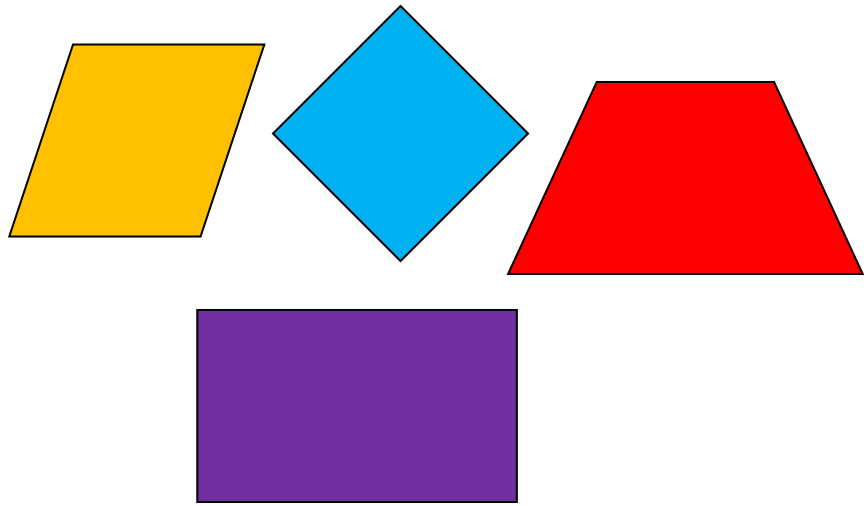

**Quadrant I**

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

# quadrilateral

---

# quadrilateral



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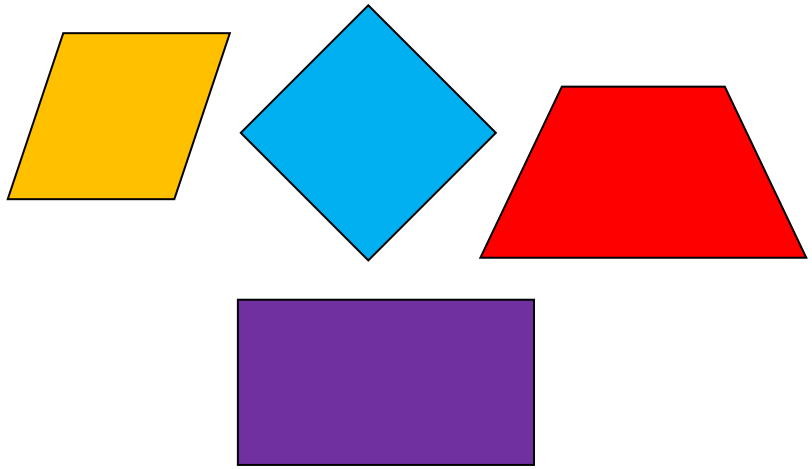
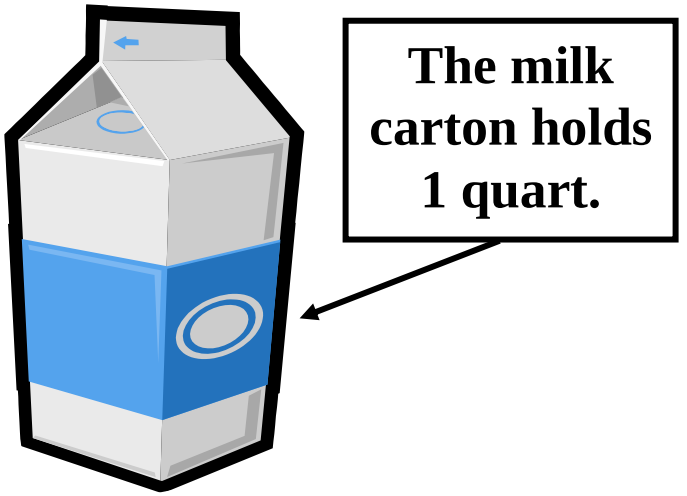
# quadrilateral



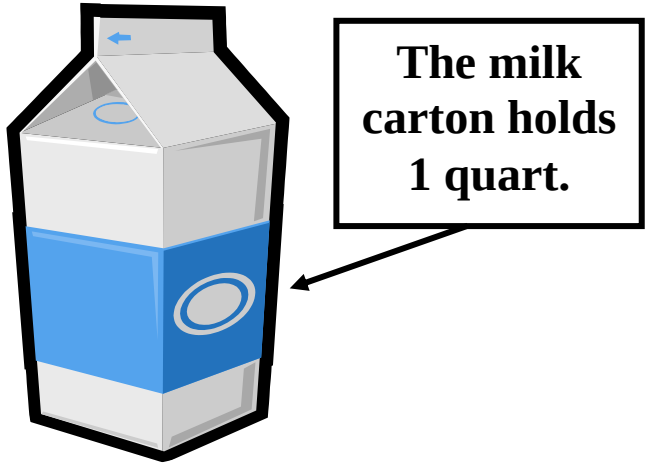
A polygon
with 4 sides.

# quart (qt)

# quart (qt)




# quart (qt)

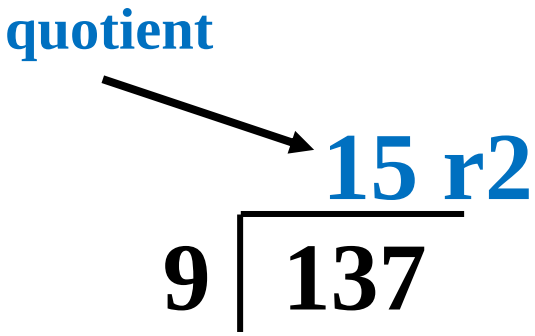



A customary unit of capacity.

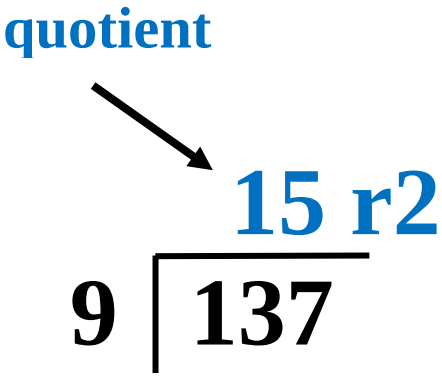
1 quart = 2 pints
or
1 quart = 4 cups

# 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.**

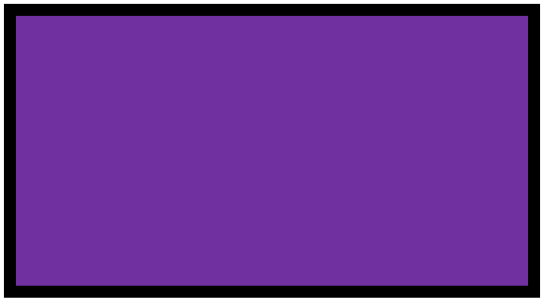
**The answer is A.**

An answer that is based on good number sense.

# rectangle

# rectangle

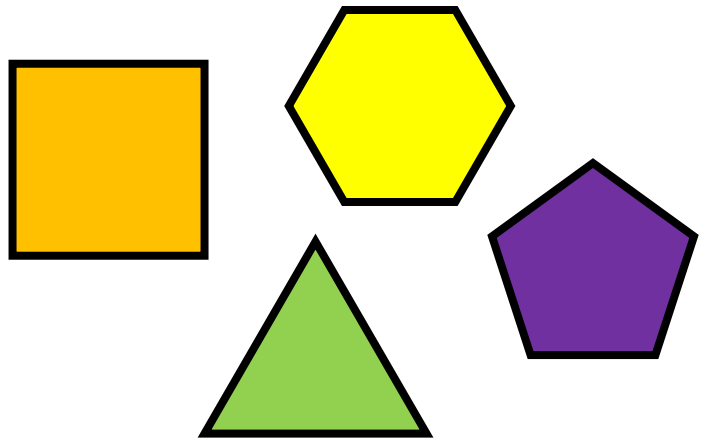
# rectangle



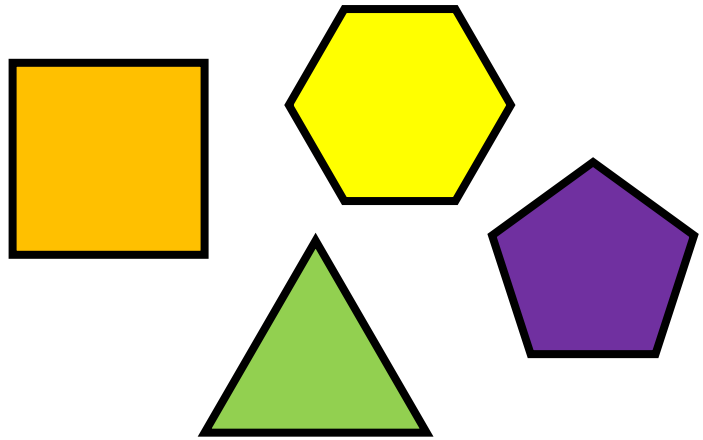
A quadrilateral with
2 pairs of congruent,
parallel sides and
4 right angles.

# regular polygon

# regular polygon



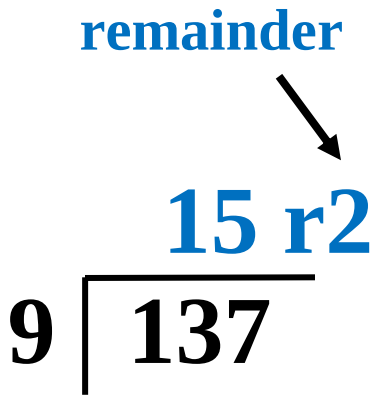
# regular polygon



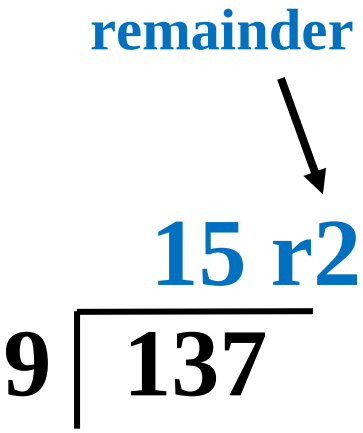
A polygon with all sides the same length and all angles the same measure.

# remainder

# remainder



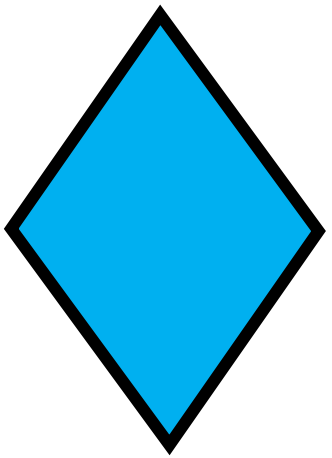

# remainder



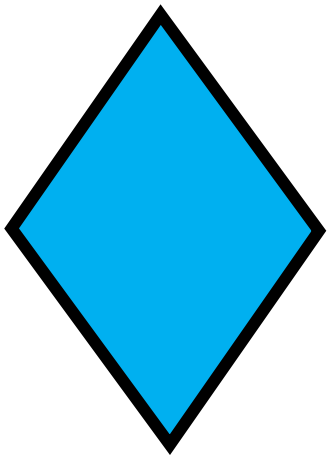

The number that is left over after a whole number is divided equally by another.

# rhombus

# rhombus



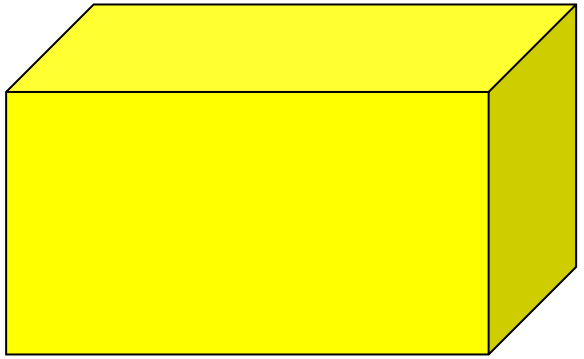
# rhombus



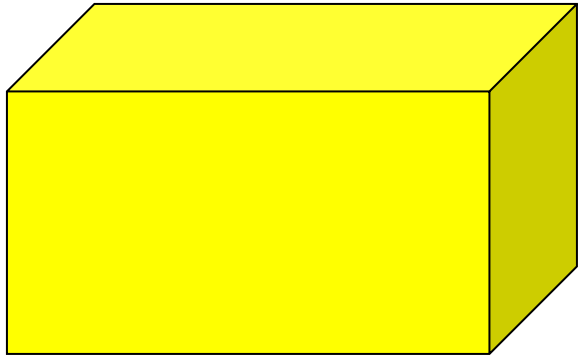
A quadrilateral with all
4 sides equal in length.

# right rectangular prism

**right rectangular prism**



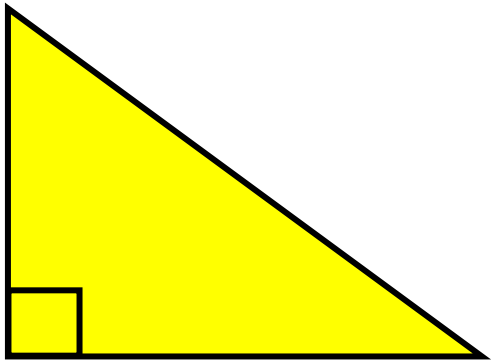
**right rectangular prism**



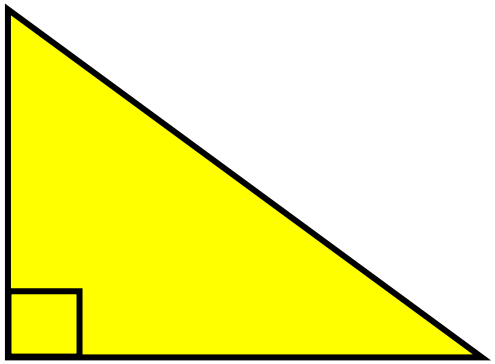
A prism with 6 rectangular faces where the lateral edge is perpendicular to the plane of the base.

# right triangle

# right triangle



# right triangle



A triangle that has one 90º angle.

# rounding

# rounding

45.357 → 45.4

# rounding

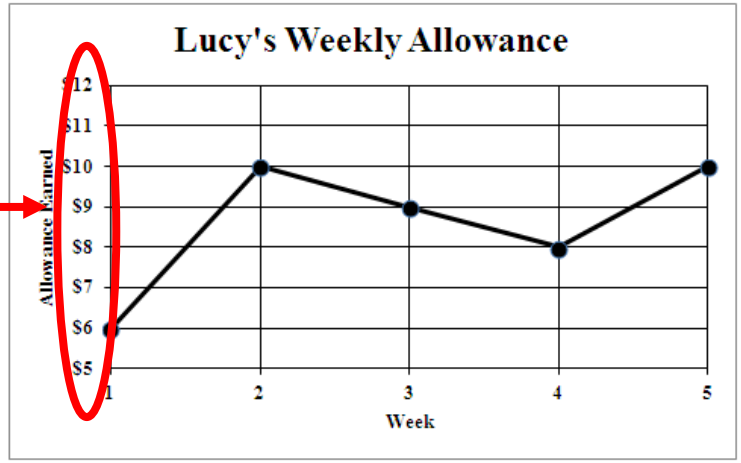
45.357 → 45.4

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

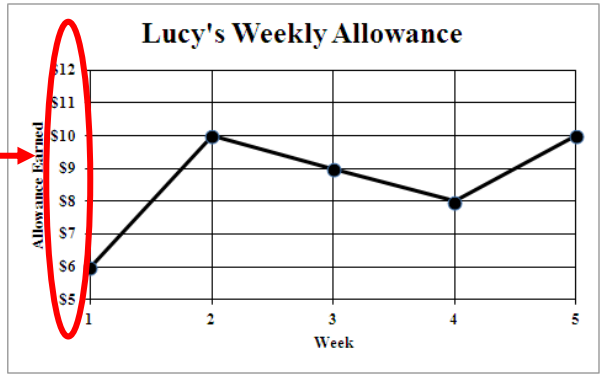
# scale

scale from
5 to 12




# scale

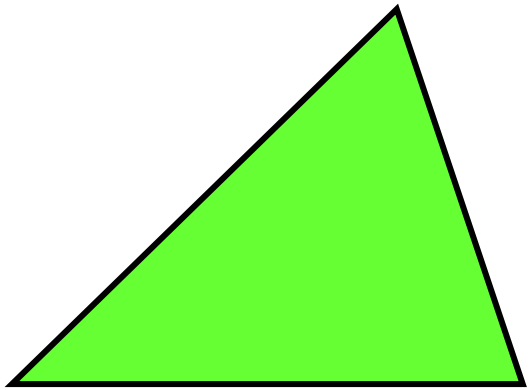
scale from
5 to 12



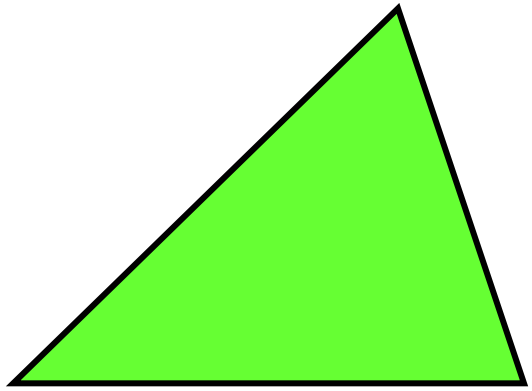

A series of numbers at regular intervals that help label a graph.

# scalene triangle

# scalene triangle



# scalene triangle

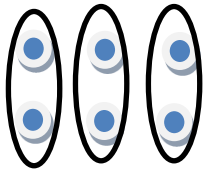


A triangle that has no equal sides.

# scaling

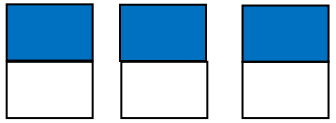
# scaling

$3 \times 2$



Note: Product will be greater than 3.

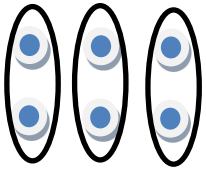
$3 \times \frac{1}{2}$



Note: Product will be less than 3.

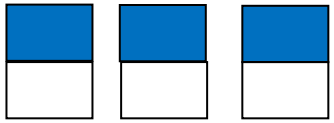
# scaling

$3 \times 2$



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

$\frac{4}{8}$

$\frac{1}{2}$

# simplify

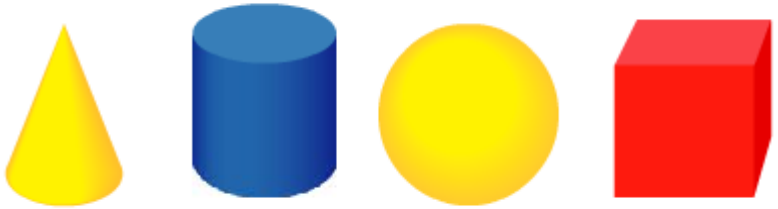
$\frac{4}{8}$

$\frac{1}{2}$

To express a fraction in simplest form.

# solid figure

**solid figure**

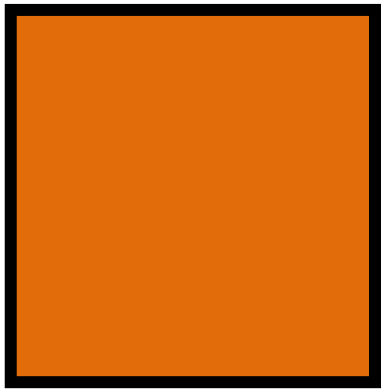


**solid figure**

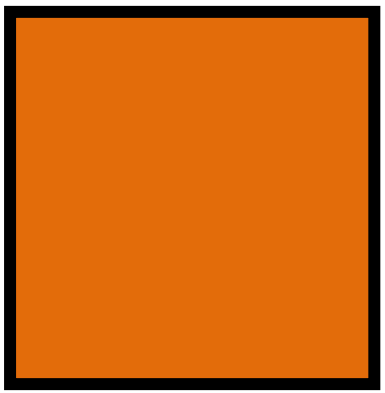
Three-dimensional figure that has length, width, and height.

# square

# square



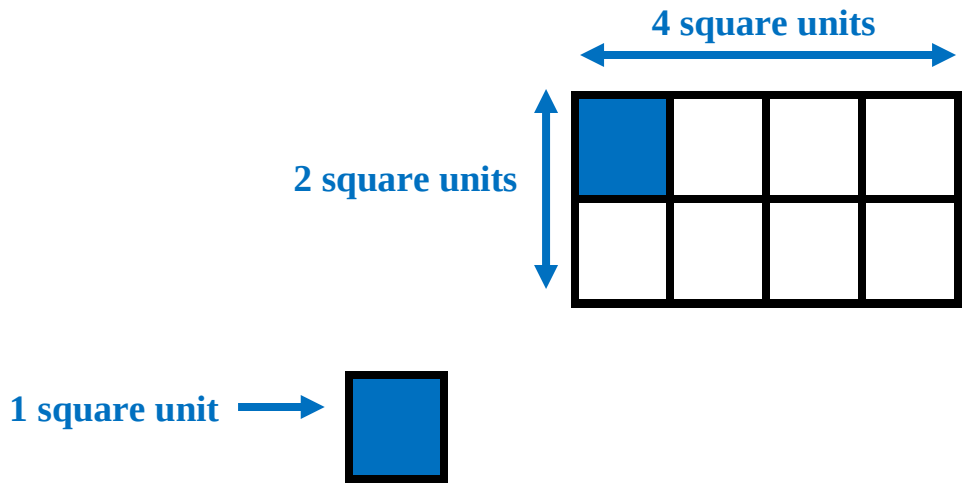
# square



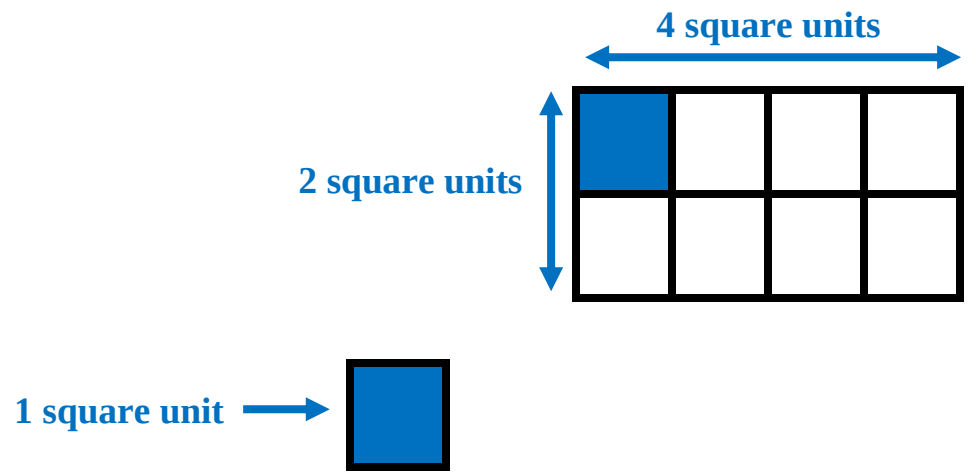
A parallelogram with
4 equal angles AND
4 equal sides.

# 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

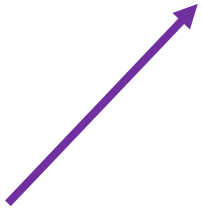
# sum

**45.3 + 92.9 = 138.2**

**sum**

# sum

**45.3 + 92.9 = 138.2**

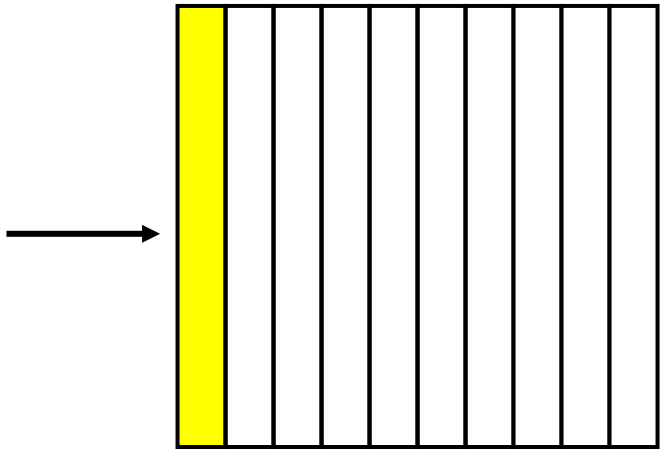


**sum**

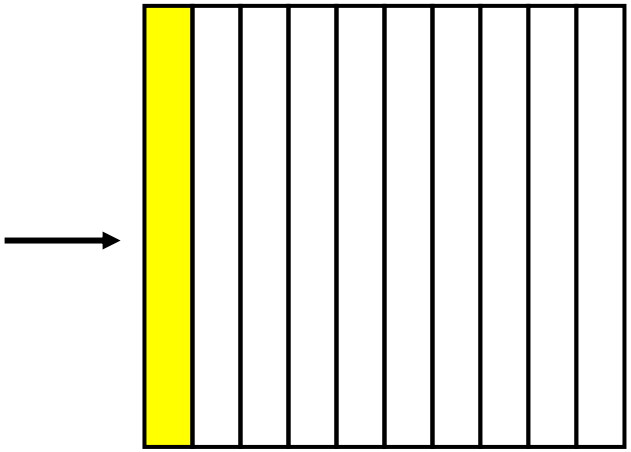
The result of addition.

# tenth

# tenth



# tenth



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

# tenths

# tenths

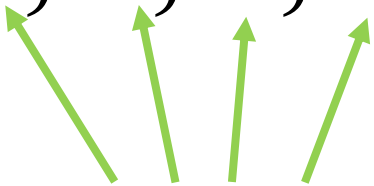
# tenths

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

# term

# term

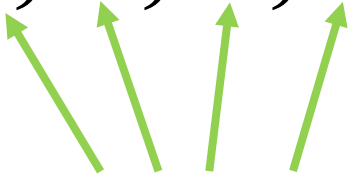
3, 5, 7, 9…



terms

# term

3, 5, 7, 9…



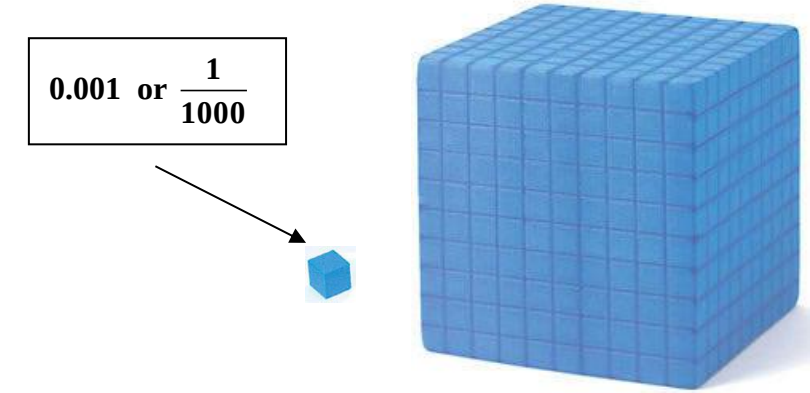
terms

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

# thousandth

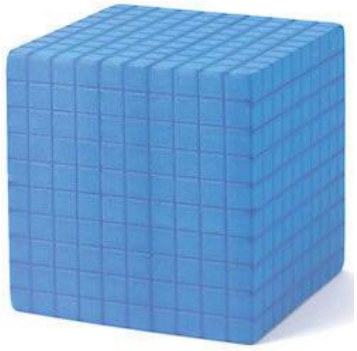
thousandth

0.001 or $\frac{1}{1000}$



thousandth

0.001 or $\frac{1}{1000}$



One of 1000 equal parts of a whole.

# thousandths

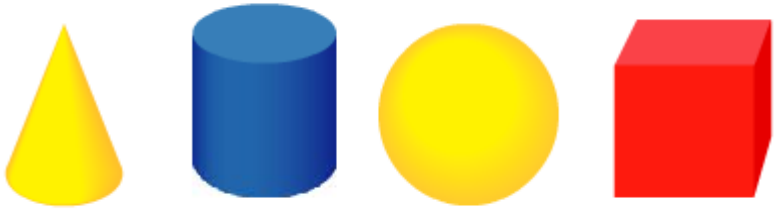
**thousandths** 0.276

**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**

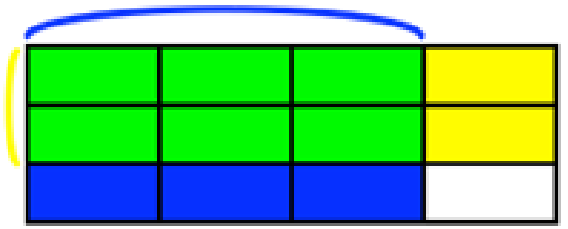
A solid figure that has length, width, and height.

# tiling

# tiling

$\frac{3}{4}$

$\frac{2}{3}$

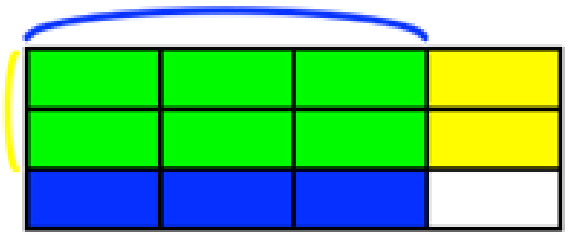


$\frac{2}{3}$ of $\frac{3}{4} = \frac{6}{12}$

# tiling

$\frac{3}{4}$

$\frac{2}{3}$



$\frac{2}{3}$ 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)

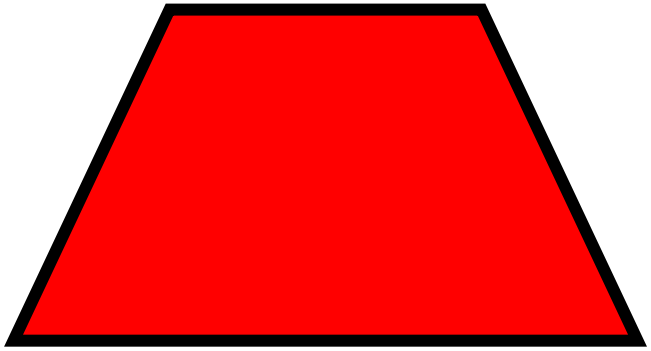
**A small car weighs about 1 ton.**

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

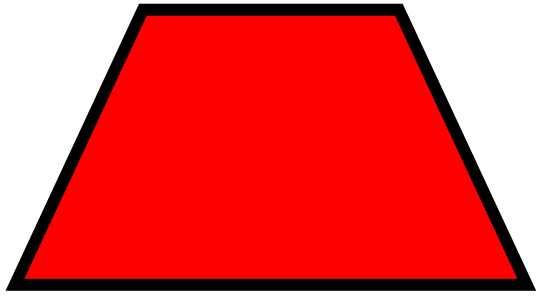
A metric ton (t) is a unit of mass equal to 1,000 kilograms (about 2,200 pounds).

# trapezoid

# trapezoid



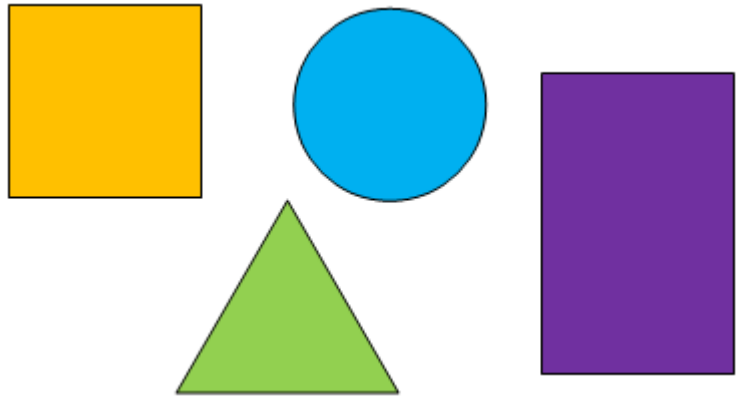
# trapezoid



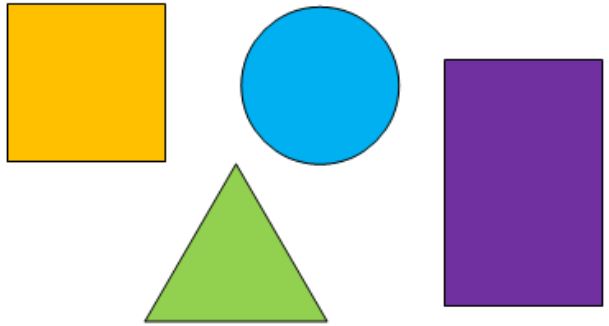
A quadrilateral with at least one pair of parallel sides.

# two-dimensional figure

**two-dimensional figure**



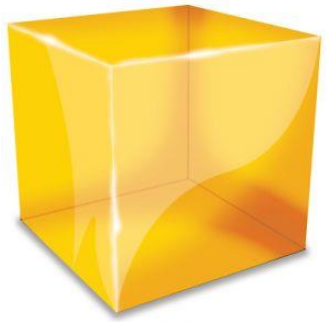
**two-dimensional figure**



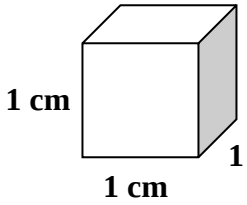
A plane, flat figure that has length and width.

# unit cube

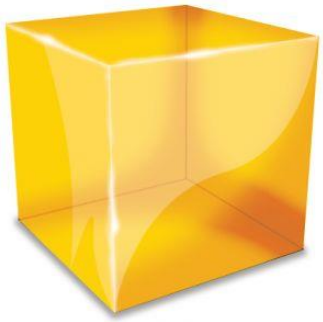
# unit cube



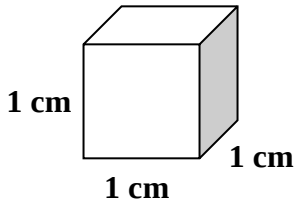
**Volume of 1 cubic ($cm^3$) centimeter**




# unit cube



**Volume of 1 cubic ($cm^3$) centimeter**

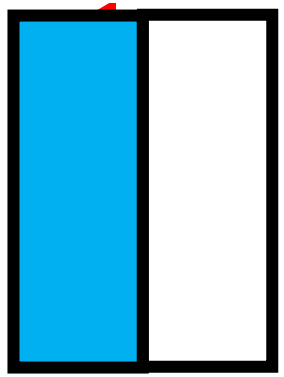



A precisely fixed quantity used to measure volume.

# unit fraction

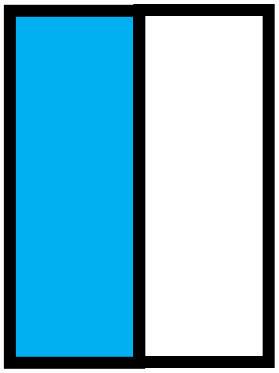
unit fraction

$\frac{1}{2}$



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**

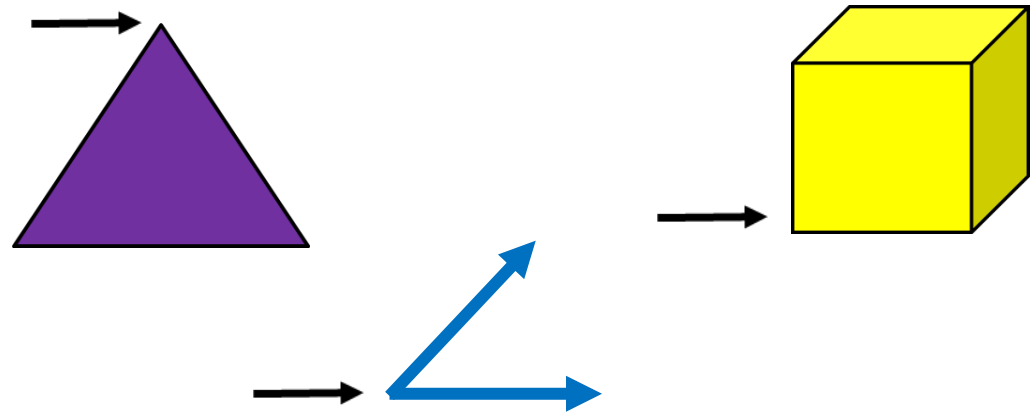
$$5 \times b = 10$$

***b*** **is a variable worth 2.**

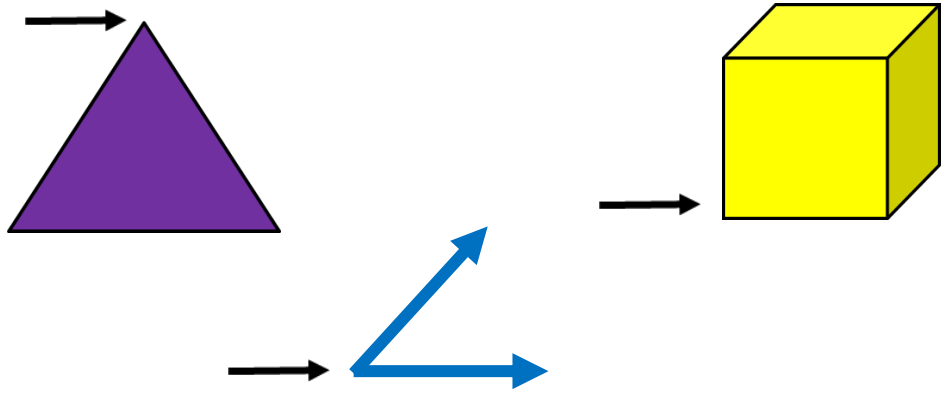
A letter or symbol that represents a number.

# vertex

vertex



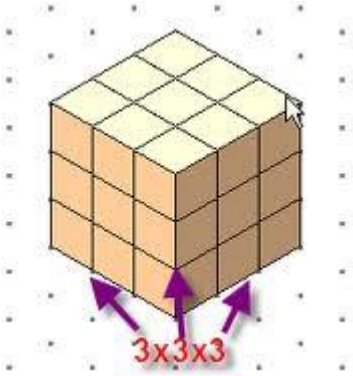
vertex



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

# volume

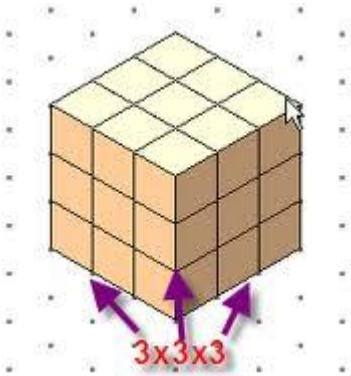
# volume




**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

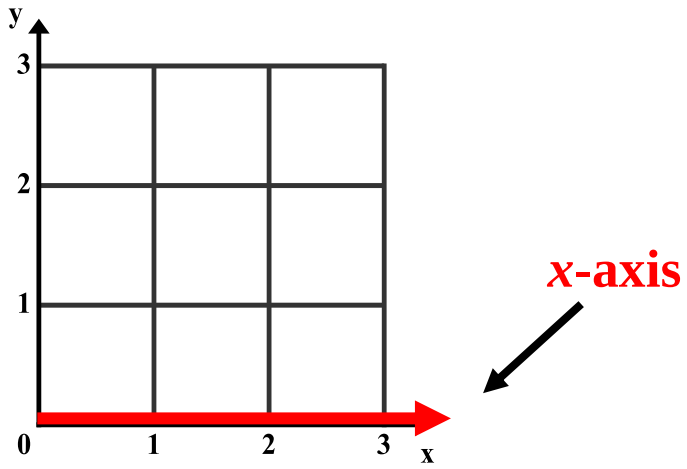
# whole numbers

# whole numbers

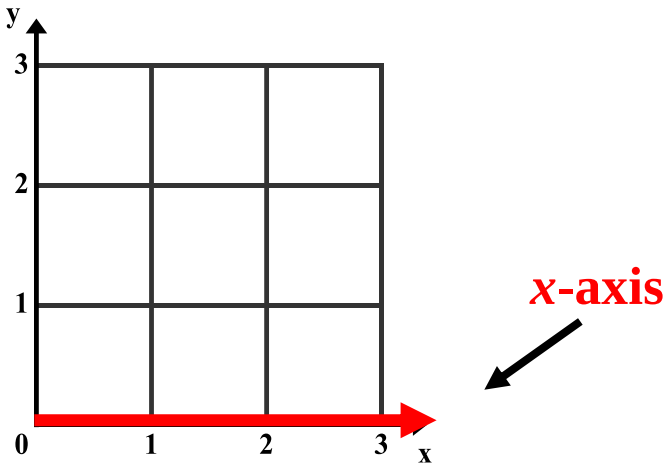
Whole numbers are 0 and the counting numbers 1, 2, 3, 4, 5, 6, and so on.

# *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.

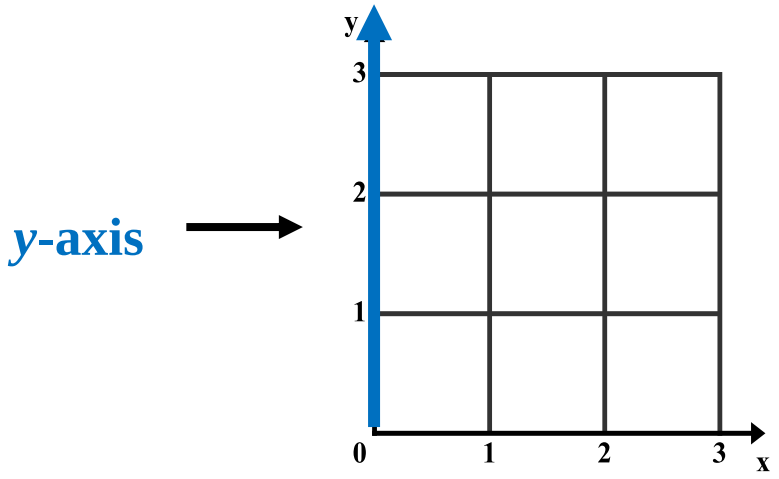
# yard (yd)

A door is *about* 1 yard wide.

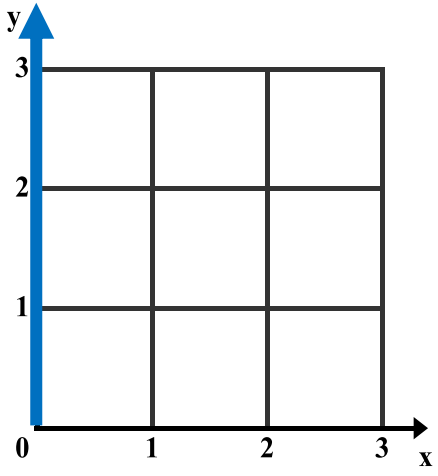
A customary unit of length.
1 yard = 3 feet or 36 inches

# *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.