

Vocabulary Cards and Word Walls

Revised: June 29, 2011

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

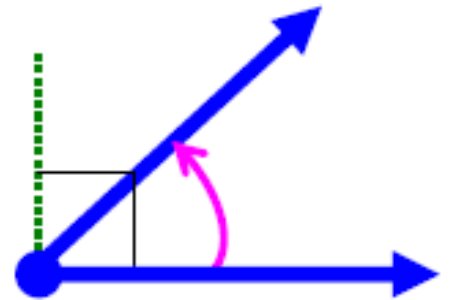
Student Reference Books, Everyday Mathematics, 2007.

Houghton-Mifflin eGlossary, <http://www.eduplace.com>

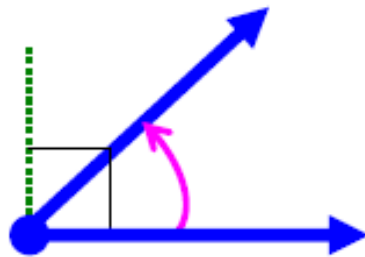
Interactive Math Dictionary, <http://www.amathsdictionaryforkids.com/>

acute angle

acute angle



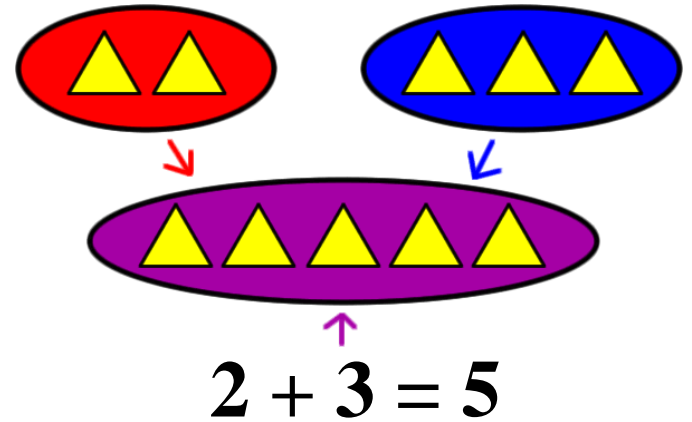
acute
angle



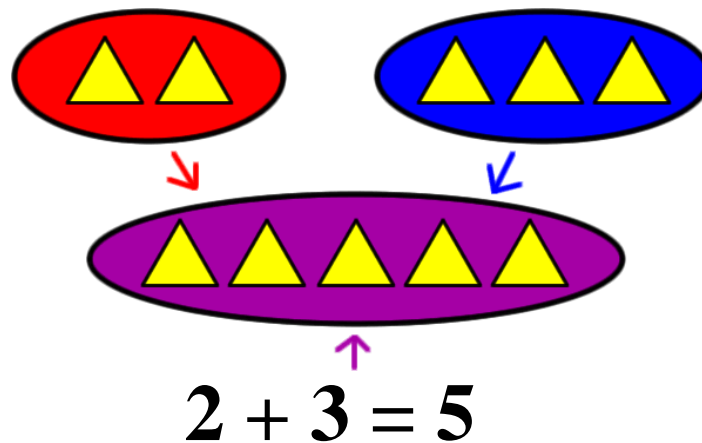
An angle with a
measure less than 90° .

add

add



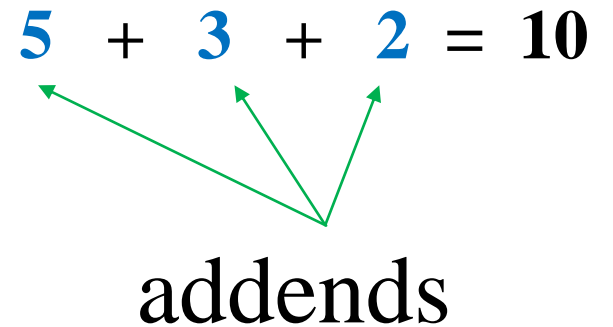
add



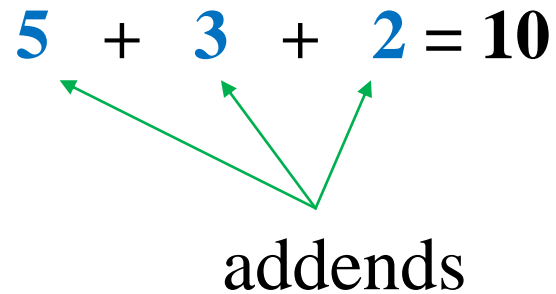
To combine, put together two or more quantities.

addend

addend



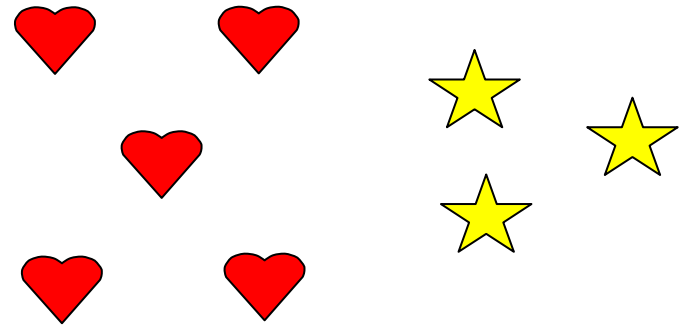
addend



Any number
being added.

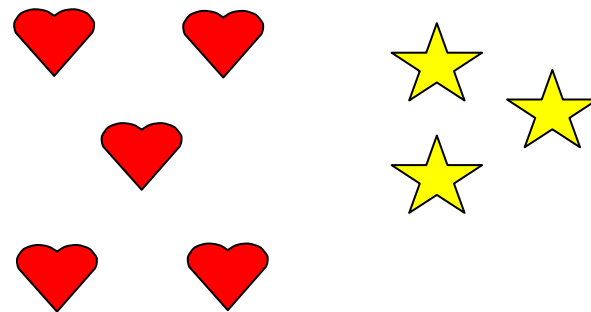
additive comparison

additive
comparison



How many more hearts than stars are there?

additive
comparison



How many more hearts than stars are there?

Problems that ask
how much more
(or less) one amount
is than another.

algorithm

algorithm

$$\begin{array}{r} 24 \\ \times 3 \\ \hline 12 \\ \underline{60} \\ 72 \end{array}$$

Multiply the ones $3 \times 4 = 12$

Multiply the tens $3 \times 20 = 60$

Add the partial products

algorithm

$$\begin{array}{r} 24 \\ \times 3 \\ \hline 12 \\ \underline{60} \\ 72 \end{array}$$

Multiply the ones $3 \times 4 = 12$

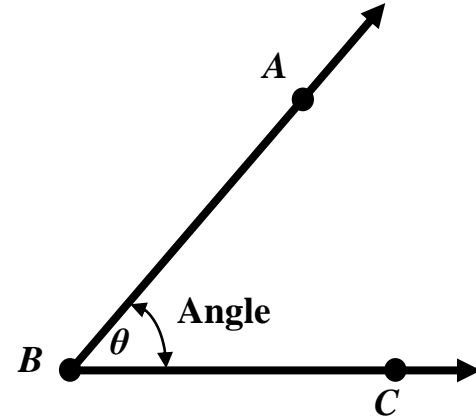
Multiply the tens $3 \times 20 = 60$

Add the partial products

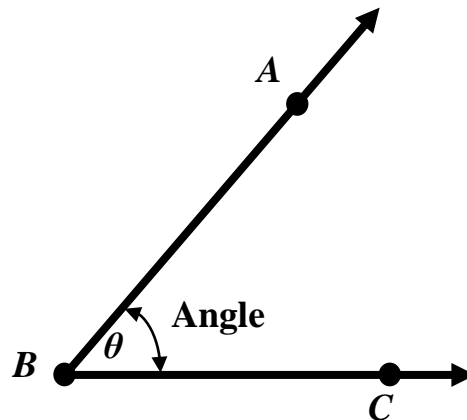
A step-by-step
method for
computing.

angle

angle



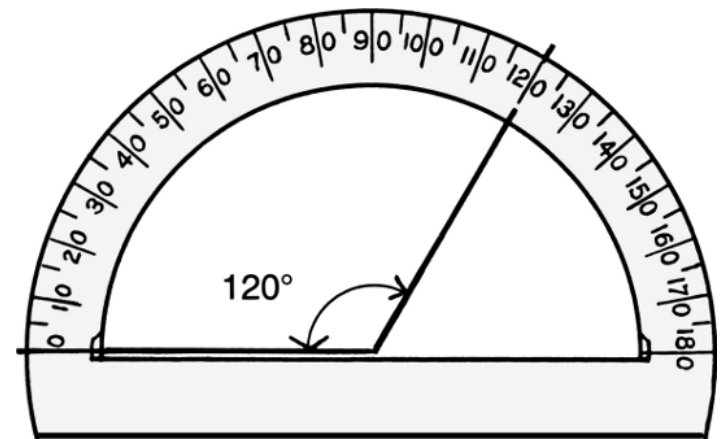
angle



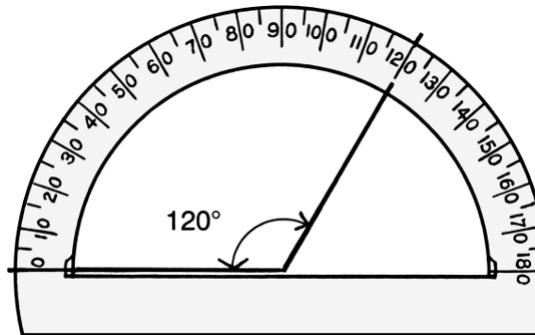
Two rays that
share an
endpoint.

angle measure

angle
measure



angle
measure

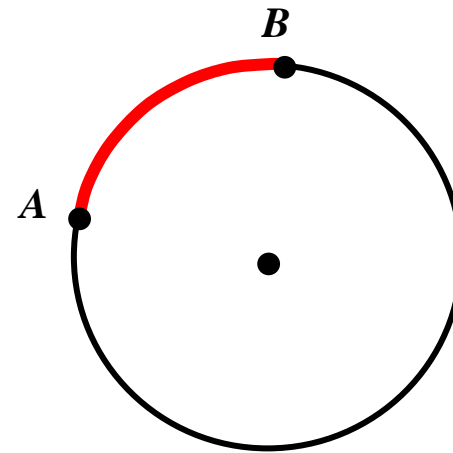


The measure of the size of an angle. It tells how far one side is turned from the other side.

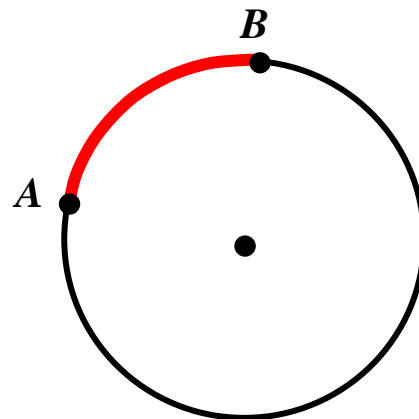
A one degree angle turns through $\frac{1}{360}$ of a full circle.

arc

arc



arc



Part of a circle
between any two of
its points.

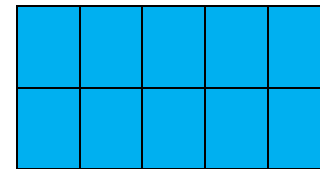
area

area

2 rows of 5 = 10 square units

or

$2 \times 5 = 10$ square units

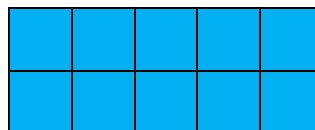


area

2 rows of 5 = 10 square units

or

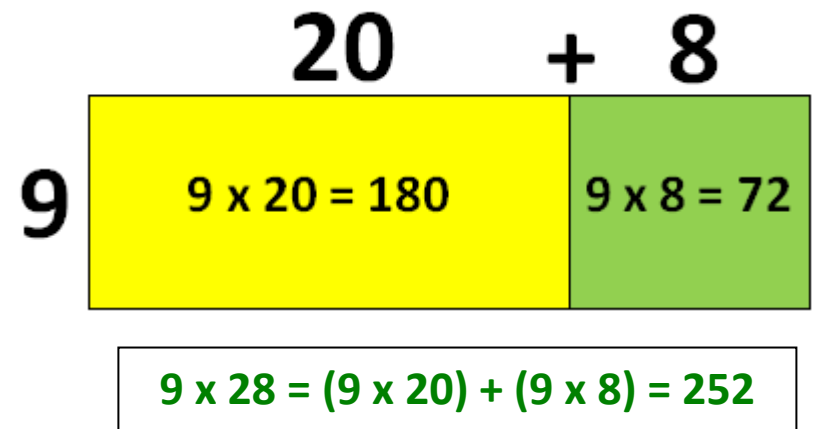
$2 \times 5 = 10$ square units



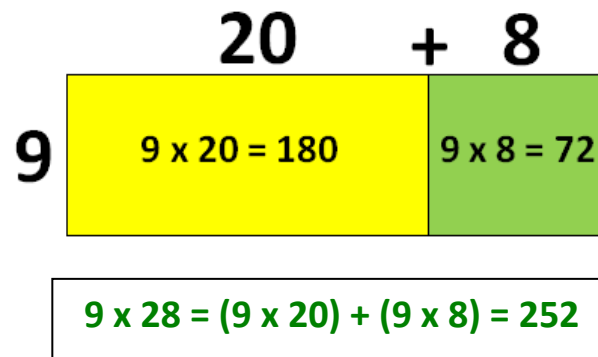
The measure, in square units, of the inside of a plane figure.

area model

area
model



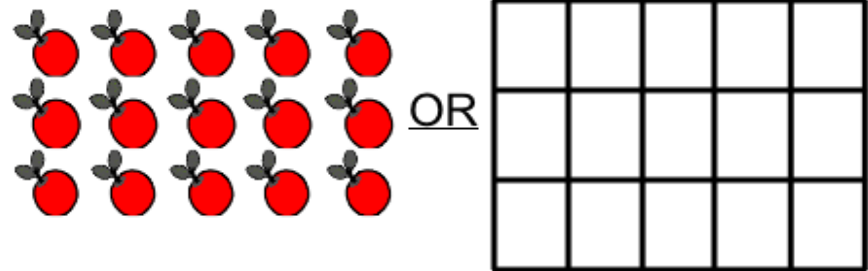
area
model



A model of multiplication that shows each place value product.

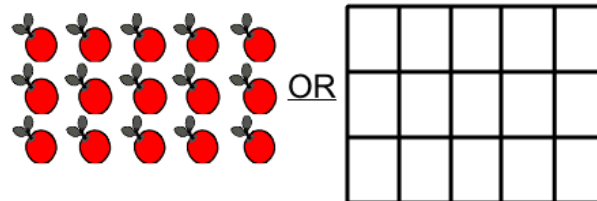
array

array



array

3 rows of 5
3 x 5



An arrangement
of objects in
equal rows.

Associative Property of Addition

**Associative
Property
of Addition**

$$(5 + 7) + 3 = 5 + (7 + 3)$$

$$12 + 3 = 5 + 10$$

$$15 = 15$$

**Associative
Property
of Addition**

$$(5 + 7) + 3 = 5 + (7 + 3)$$

$$12 + 3 = 5 + 10$$

$$15 = 15$$

Changing the grouping of three or more addends does not change the sum.

Associative Property of Multiplication

**Associative
Property of
Multiplication**

$$(5 \times 7) \times 3 = 5 \times (7 \times 3)$$
$$35 \times 3 = 5 \times 21$$
$$105 = 105$$

**Associative
Property of
Multiplication**

$$(5 \times 7) \times 3 = 5 \times (7 \times 3)$$
$$35 \times 3 = 5 \times 21$$
$$105 = 105$$

Changing the grouping of three or more factors does not change the product.

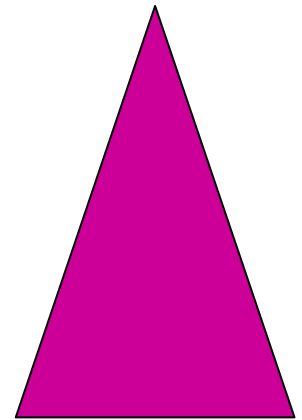
attribute

attribute

large

triangle

pink

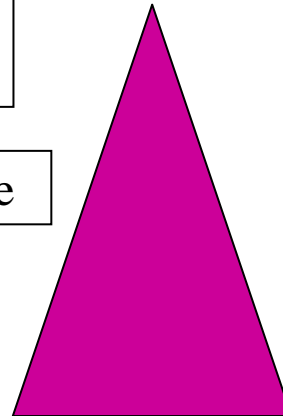


attribute

large

triangle

pink



A characteristic
of an object, such
as color, shape,
size, etc.

benchmark fractions

**benchmark
fractions**

$$\frac{1}{4} \quad \frac{1}{3} \quad \frac{1}{2} \quad \frac{2}{3} \quad \frac{3}{4}$$

**benchmark
fractions**

$$\frac{1}{4} \quad \frac{1}{3} \quad \frac{1}{2} \quad \frac{2}{3} \quad \frac{3}{4}$$

Fractions that are
commonly used for
estimation.

capacity

capacity



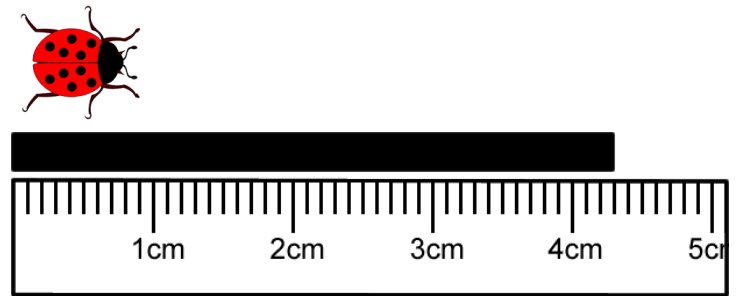
capacity



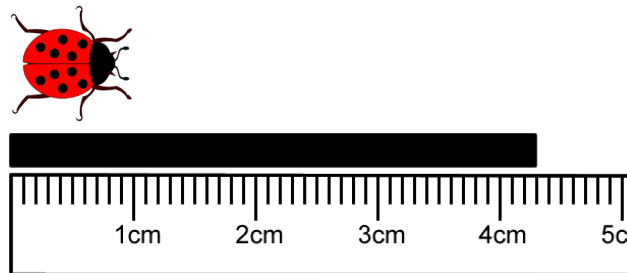
Capacity refers to the amount of liquid a container can hold.

centimeter (cm)

centimeter (cm)



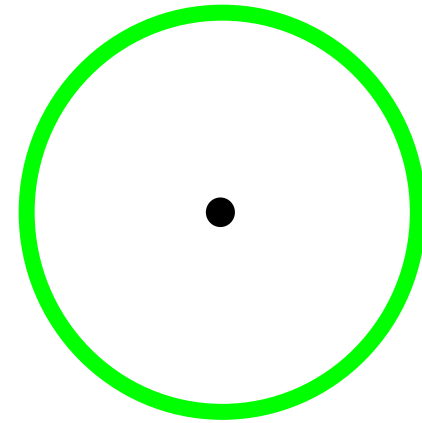
centimeter (cm)



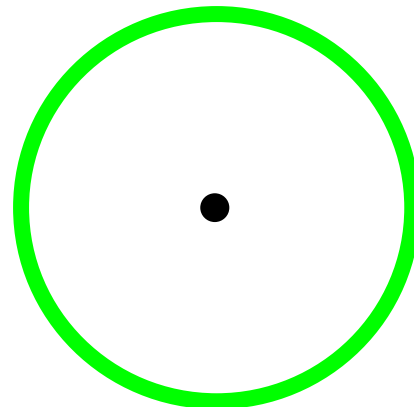
A metric unit
of length equal
to 0.01 of a
meter.

circle

circle



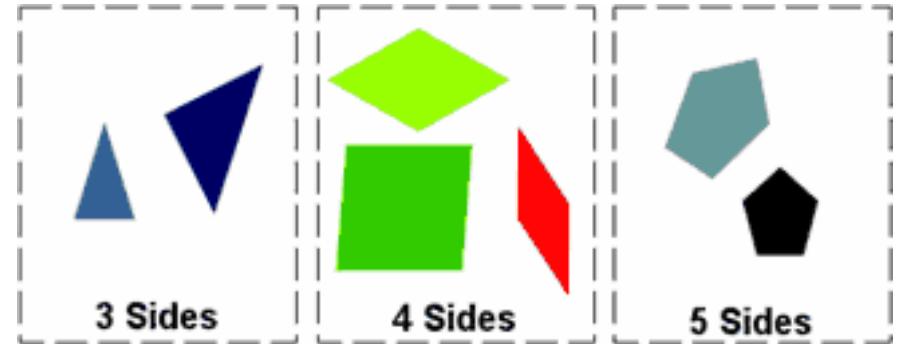
circle



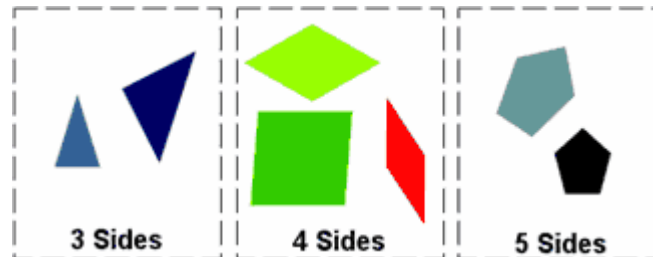
A plane figure with all points the same distance from a fixed point called a center.

classify

classify



classify



To sort into
categories
or to arrange into
groups by attributes.

common denominator

**common
denominator**

**12 is a common
denominator for**

$$\frac{2}{3} \text{ and } \frac{3}{4}$$

**common
denominator**

**12 is a common
denominator for**


$$\frac{2}{3} \text{ and } \frac{3}{4}$$

For two or more fractions, a common denominator is a common multiple of the denominators.

Commutative Property of Addition


Commutative Property of Addition

Commutative Property


$$3 + 2 = 2 + 3$$
$$a + b = b + a$$

Commutative Property of Addition

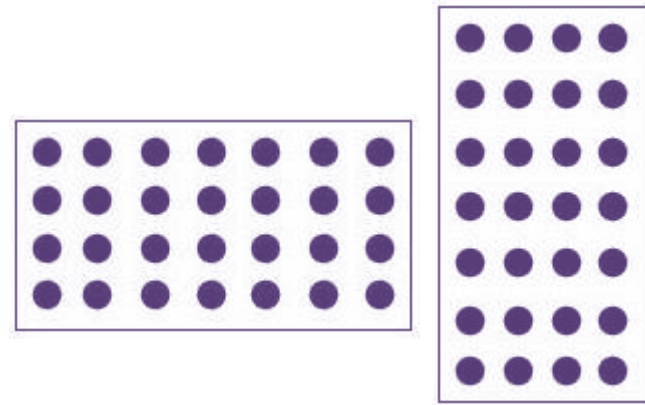
Commutative Property


$$3 + 2 = 2 + 3$$
$$a + b = b + a$$

Changing the order of the addends does not change the sum.

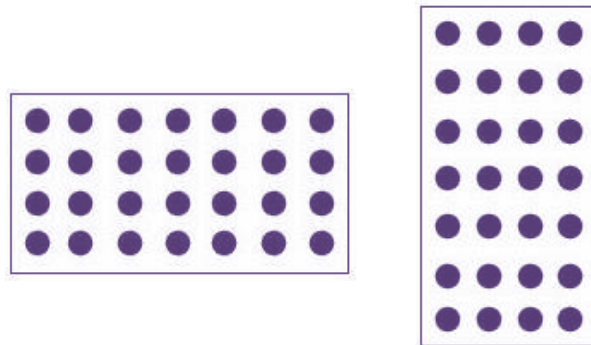
Commutative Property of Multiplication

Commutative Property of Multiplication



$$4 \times 7 = 7 \times 4$$

Commutative Property of Multiplication

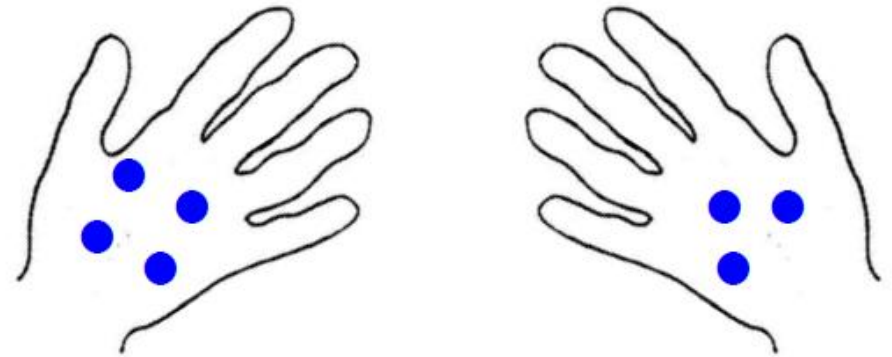


$$4 \times 7 = 7 \times 4$$

Changing the order of the factors does not change the product.

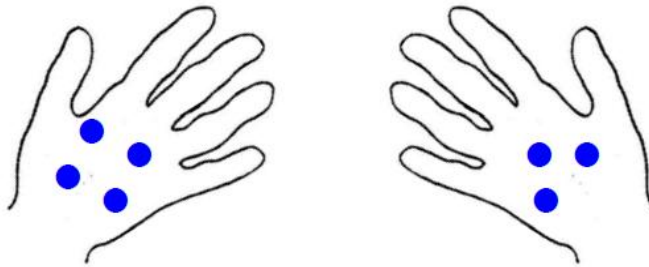
compare

compare



4 is more than 3

compare

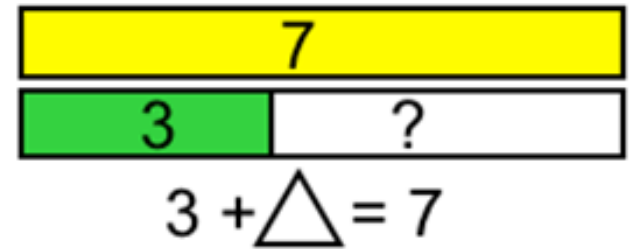


4 is more than 3

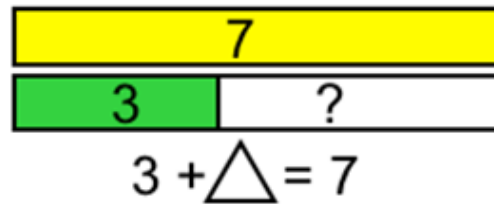
To decide if one number is greater than, less than, or equal to.

comparison bars

comparison
bars



comparison
bars



Used to represent larger and smaller amounts in a comparison situation. Can be used to represent all four operations. Different lengths of bars are drawn to represent each number.

compose

compose



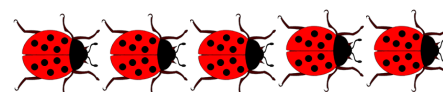
compose



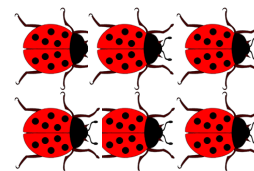
To put together components or basic elements.

composite number

composite
number



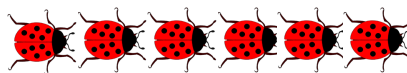
$$1 \times 6 = 6$$



$$2 \times 3 = 6$$

6 is a composite number

composite
number



$$1 \times 6 = 6$$



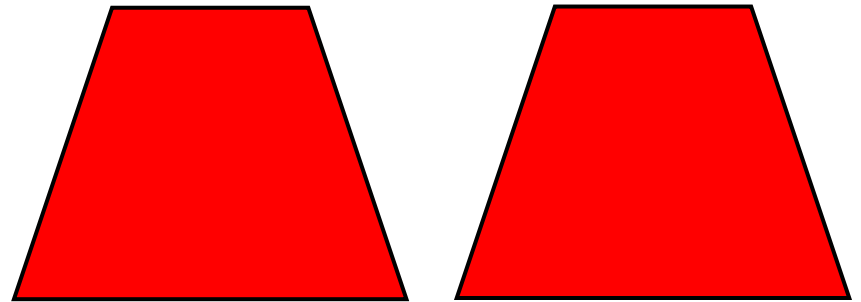
$$2 \times 3 = 6$$

6 is a composite number

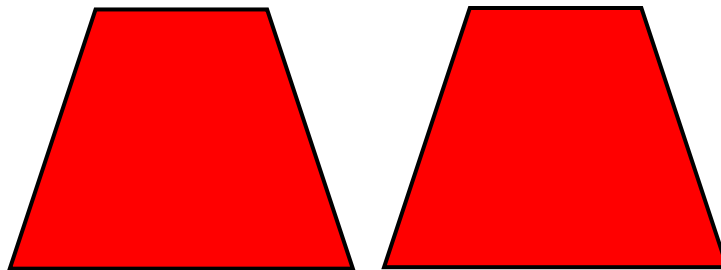
A number greater than 0 that has more than two different factors.

congruent

congruent



congruent



Having exactly
the same size
and shape.

cup (c)

cup (c)



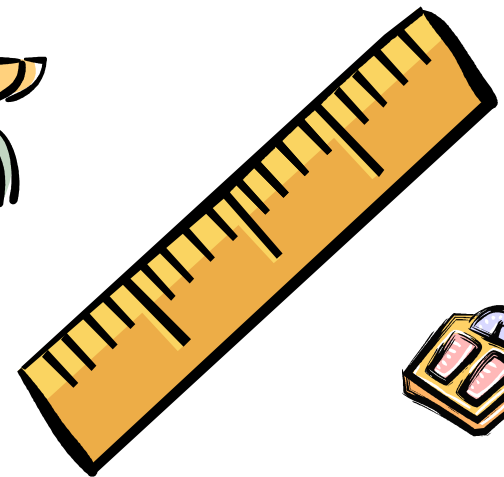
cup (c)



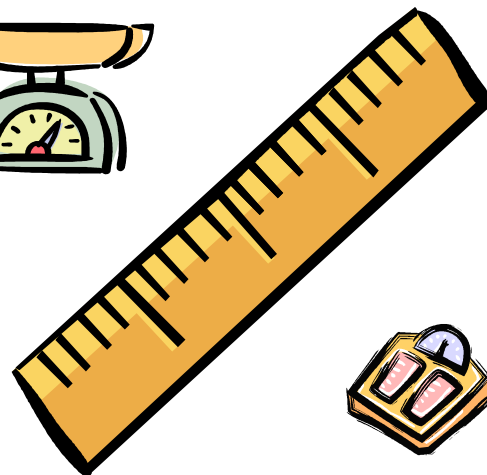
A customary unit of
capacity.
1 cup = 8 fluid ounces.

customary system

customary
system



customary
system









A system of measurement used in the U.S. The system includes units for measuring length, capacity, and weight.

data







data

data collecting

 car	X X X X X X X X X X			
 truck	X X X X X	car	truck	bus
 bus	X X	 	 	

data

data collecting

 car	X X X X X X X X X X			
 truck	X X X X X	car	truck	bus
 bus	X X	 	 	

A collection of information gathered for a purpose. Data may be in the form of either words or numbers.

decimal

decimal

\$29.45 53.0
0.02

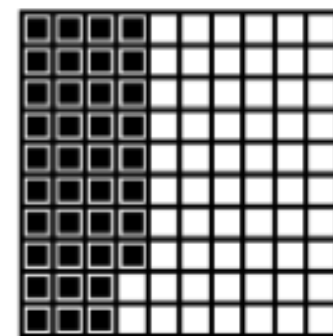
decimal

\$29.45 53.0
0.02

A number with one or more digits to the right of a decimal point.

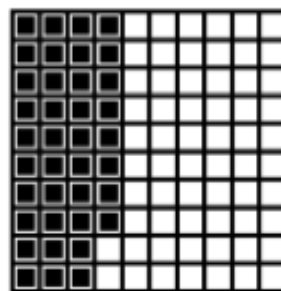
decimal fraction

decimal
fraction



$$0.38 = \frac{38}{100}$$

decimal
fraction



$$0.38 = \frac{38}{100}$$

A fractional number with a denominator of 10 or a power of 10. Usually written with a decimal point.

decimal notation

decimal
notation

4.73

decimal
notation


4.73

A number containing
a decimal point.

decimal point

decimal
point

\$1.55 3.2



decimal point

decimal
point

\$1.55 3.2

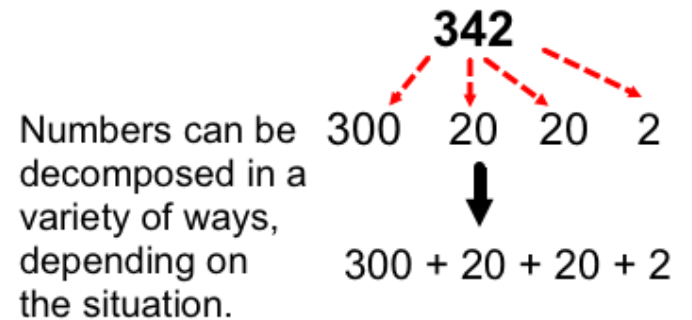


decimal point

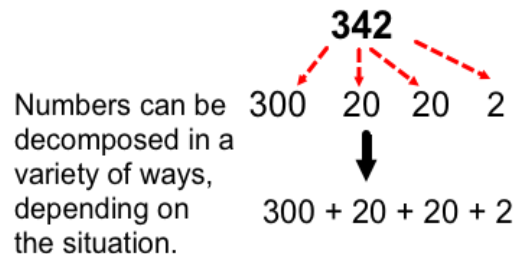
A dot (.) separating
the whole number
from the fraction in
decimal notation.

decompose

decompose



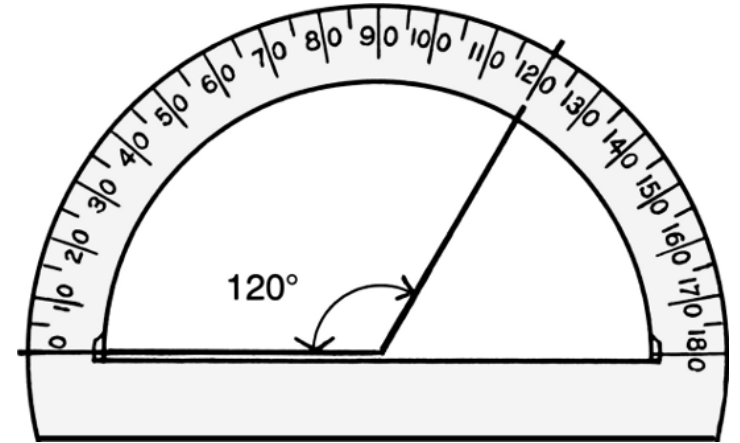
decompose



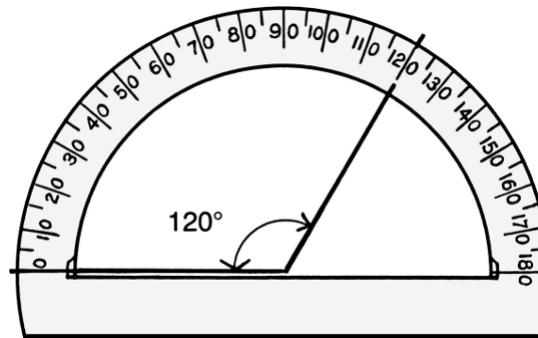
To separate into components or basic elements.

degree (angle measure)

degree (angle measure)



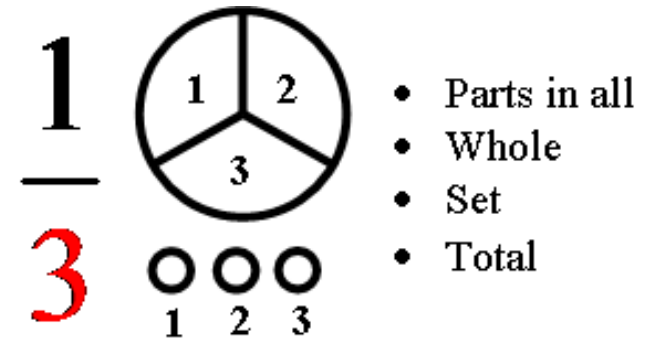
degree (angle measure)



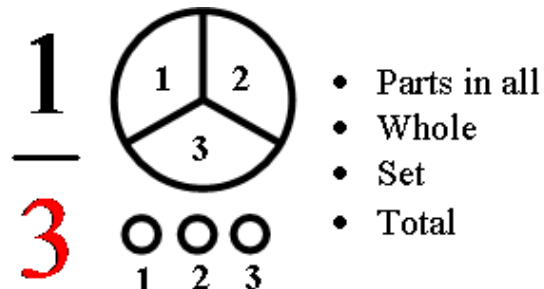
A unit for measuring angles. Based on dividing one complete circle into 360 equal parts.

denominator

denominator



denominator



The quantity below the line in a fraction. It tells how many equal parts are in the whole.

digit

digit

0 1 2 3 4
5 6 7 8 9

digit

0 1 2 3 4
5 6 7 8 9

Any of the symbols
0, 1, 2, 3, 4, 5, 6,
7, 8, and 9.

difference

difference

$$289 - 146 = 143$$

difference



difference

$$289 - 146 = 143$$

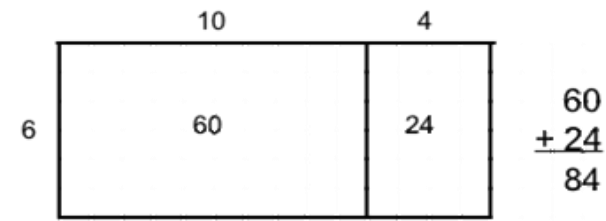
difference



The amount that remains after one quantity is subtracted from another.

Distributive Property

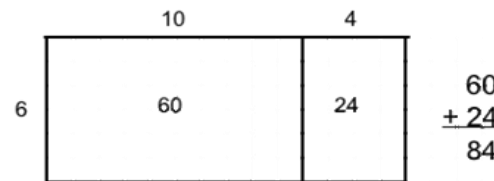
Distributive Property



$$6 \times 14 = 6 \times (10 + 4) \text{ *Break up the 14 into } 10 + 4$$

$$\begin{array}{l} \text{6} \times (10 + 4) \\ (6 \times 10) + (6 \times 4) \\ 60 + 24 = 84 \end{array}$$

Distributive Property



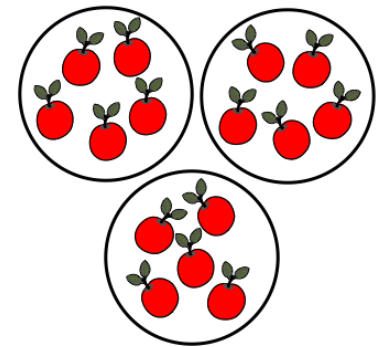
$$6 \times 14 = 6 \times (10 + 4) \text{ *Break up the 14 into } 10 + 4$$

$$\begin{array}{l} \text{6} \times (10 + 4) \\ (6 \times 10) + (6 \times 4) \\ 60 + 24 = 84 \end{array}$$

When one of the factors of a product is a sum, multiplying each addend before adding does not change the product.

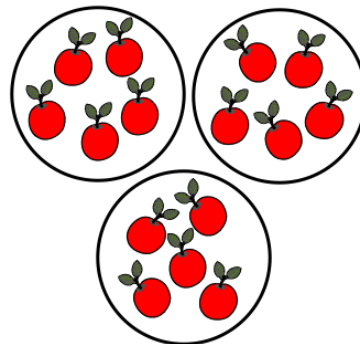
divide

divide



$$15 \div 3 = 5$$

divide



$$15 \div 3 = 5$$

To separate into equal groups and find the number in each group or the number of groups.

dividend

dividend

$$7 \overline{) 56}$$

dividend

$$7 \overline{) 56}$$

A number that is
divided by another
number.

divisor

divisor

$$\textcircled{7} \overline{) 56}$$

divisor

$$\textcircled{7} \overline{) 56}$$

The number by which
another number is
divided.

endpoint

endpoint



endpoint

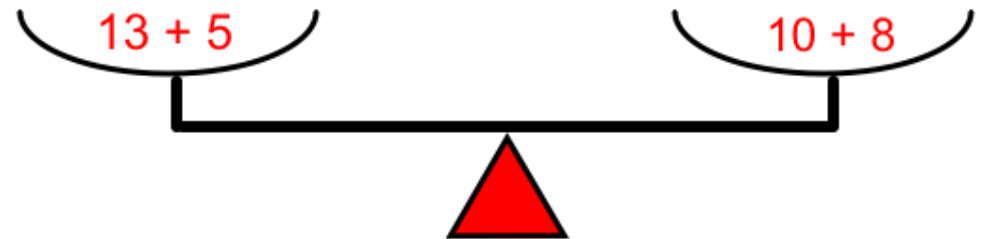


A point at either end of a line segment, or a point at one end of a ray.

equal

equal

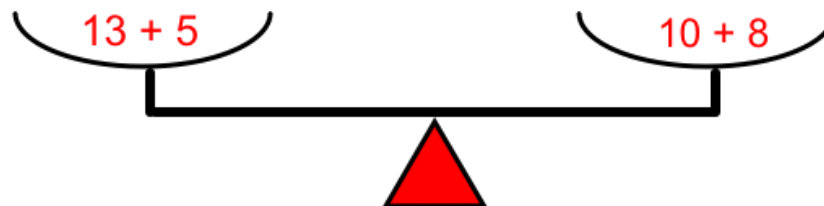
$$13 + 5 = 10 + 8$$



These expressions balance the scale because they are equal.

equal

$$13 + 5 = 10 + 8$$

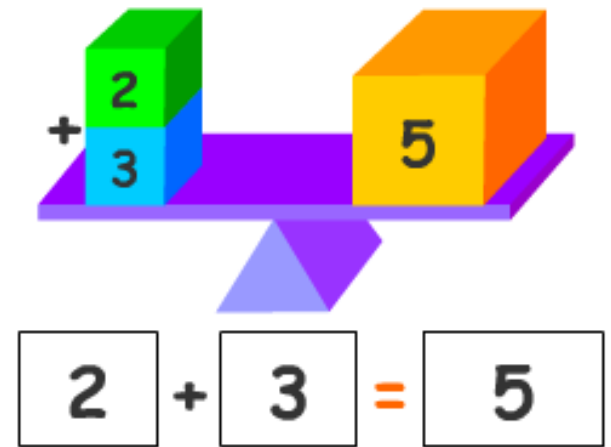


These expressions balance the scale because they are equal.

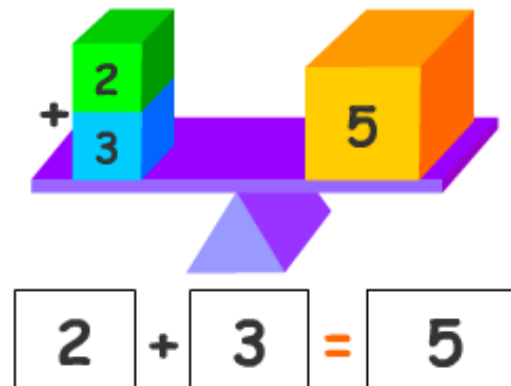
Having the same value.

equation

equation



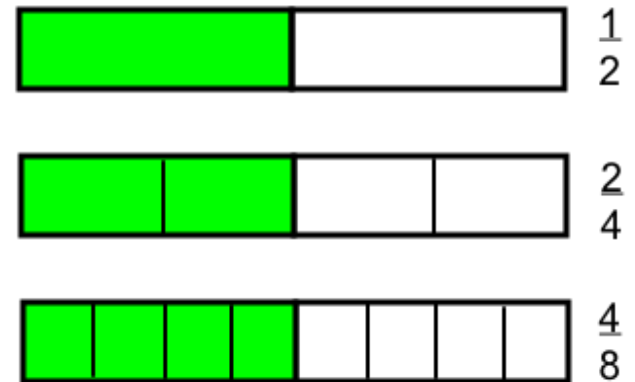
equation



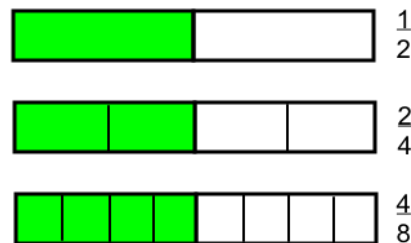
A mathematical sentence with an equals sign. The amount on one side of the equals sign has the same value as the amount on the other side.

equivalent fractions

equivalent
fractions



equivalent
fractions



Fractions that have
the same value.

estimate

estimate



How many jelly beans are in the jar?

estimate



How many jelly beans are in the jar?

To find a number close to an exact amount; an estimate tells *about* how much or *about* how many.

evaluate

evaluate

$$42 - 13 = n$$

$$n = 29$$

evaluate

$$42 - 13 = n$$

$$n = 29$$

To find the value of
a mathematical
expression.

expanded form

expanded
form

$$263 = 200 + 60 + 3$$

expanded
form

$$263 = 200 + 60 + 3$$

A way to write numbers that shows the place value of each digit.

expression

expression

n + 4

expression

n + 4

A mathematical phrase
without an equal sign.

fact family

fact family

Fact Family for 3, 5, 15

$3 \times 5 = 15$

$15 \div 5 = 3$

$5 \times 3 = 15$

$15 \div 3 = 5$

fact family

Fact Family for 3, 5, 15

$3 \times 5 = 15$

$15 \div 5 = 3$

$5 \times 3 = 15$

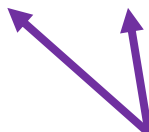
$15 \div 3 = 5$

A group of related facts that use the same numbers.

Also called *related facts*.

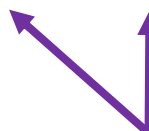
factor

factor

$$2 \times 6 = 12$$


factors

factor

$$2 \times 6 = 12$$


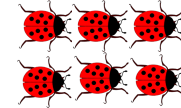
factors

The whole numbers that are multiplied to get a product.

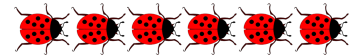
factor pairs

factor pairs

$2 \times 3 = 6$



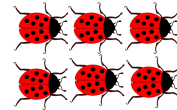
$1 \times 6 = 6$



The factor pairs for 6 are
(2,3) and (1,6)

factor pairs

$2 \times 3 = 6$



$1 \times 6 = 6$



The factor pairs for 6 are
(2,3) and (1,6)

A set of two whole numbers when multiplied, will result in a given product.

foot (ft)

foot (ft)

12 inches = 1 foot



foot (ft)

12 inches = 1 foot



A customary unit
of length.
1 foot = 12 inches.

formula

formula

To find the area of any rectangle,
multiply its length by its width.
This rule can be written as an equation,

$$A = l \times w$$

formula

To find the area of any rectangle,
multiply its length by its width.
This rule can be written as an equation,

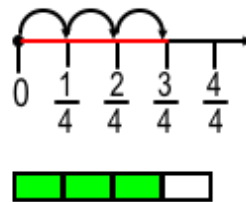
$$A = l \times w$$

A rule that is written
as an equation.

fraction

fraction

Measurement Model

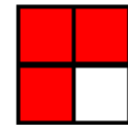


Bar Diagram
(thickened number line)

Set Model

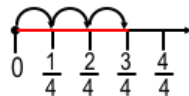


Regional/Array Model



fraction

Measurement Model



Bar Diagram
(thickened number line)

Set Model



Regional/Array Model

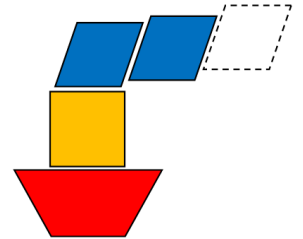


A way to describe a part of a whole or a part of a group by using equal parts.

function table

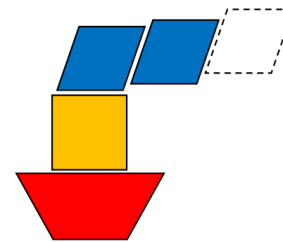
function table

Steamship	
Puff of Smoke input (p)	Total Blocks output (t)
1	3
2	4
3	5
Rule: $t = p + 2$	



function table

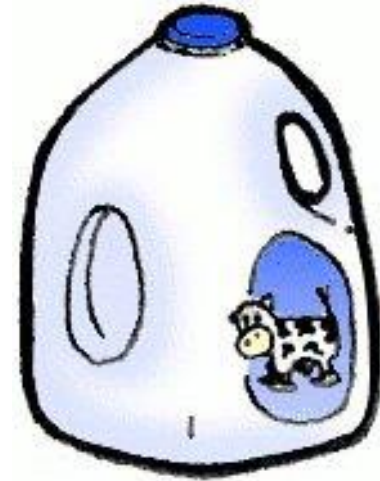
Steamship	
Puff of Smoke input (p)	Total Blocks output (t)
1	3
2	4
3	5
Rule: $t = p + 2$	



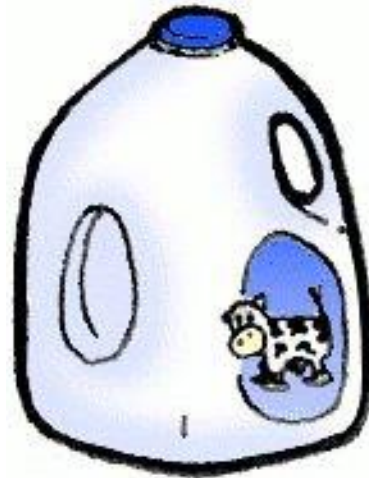
A table that lists pairs of numbers that follow a rule.

gallon (gal)

gallon (gal)



gallon (gal)



A customary unit of
capacity.
1 gallon = 4 quarts.

gram (g)

The mass of a paperclip
is about 1 gram.

gram (g)



The mass of a paperclip
is about 1 gram.

gram (g)



The standard unit of
mass in the metric
system. 1,000 grams
= 1 kilogram

greater than

greater
than



$$5 > 3$$

greater
than

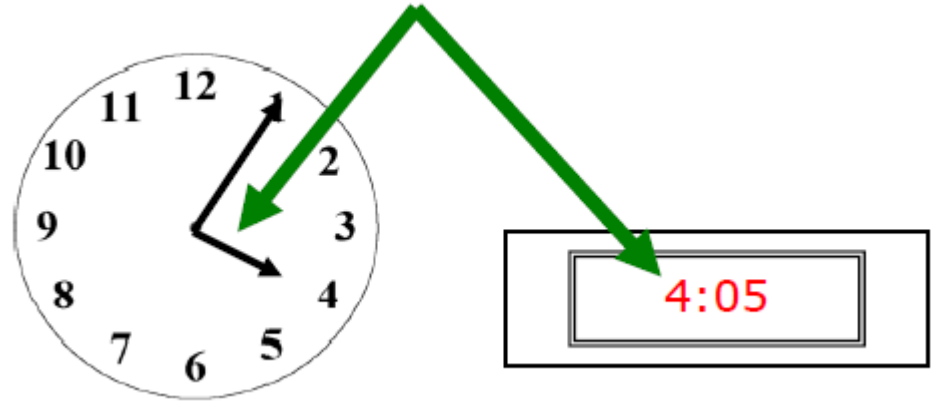


$$5 > 3$$

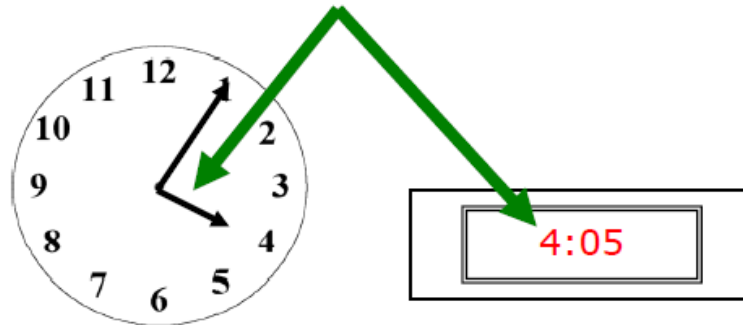
Greater than is used to compare two numbers when the first number is larger than the second number.

hour (hr)

hour (hr)



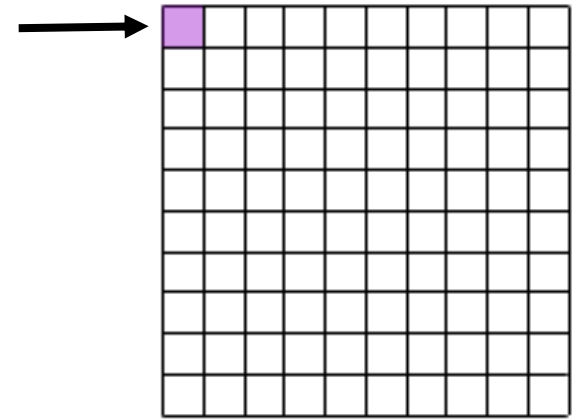
hour (hr)



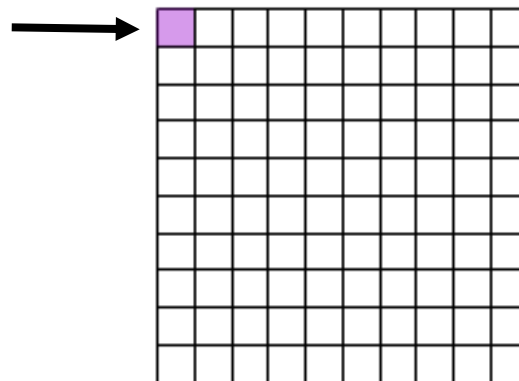
A unit of time.
1 hour = 60
minutes.
24 hours = 1 day.

hundredth

hundredth



hundredth



One of the
equal parts when
a whole is
divided into 100
equal parts.

hundredths

hundredths

4.38

hundredths

4.38

In the decimal numeration system, hundredths is the name of the next place to the right of tenths.

Identity Property of Addition

Identity Property
of Addition

$$8 + 0 = 8$$

Identity
Property of
Addition

$$8 + 0 = 8$$

If you add zero to a number, the sum is the same as that number.

Identity Property of Multiplication

Identity Property of Multiplication



$$1 \text{ group of } 3 = 3$$
$$1 \times 3 = 3$$

Identity Property of Multiplication



$$1 \text{ group of } 3 = 3$$
$$1 \times 3 = 3$$

If you multiply a number by one, the product is the same as that number.

improper fraction

improper fraction

$$\frac{15}{6} \quad \frac{6}{3} \quad \frac{16}{5}$$

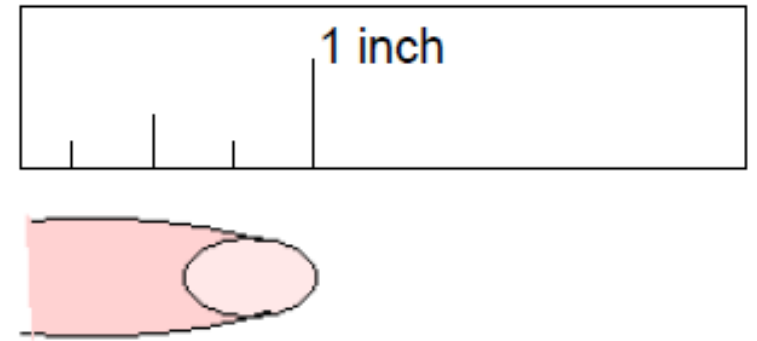
improper fraction

$$\frac{15}{6} \quad \frac{6}{3} \quad \frac{16}{5}$$

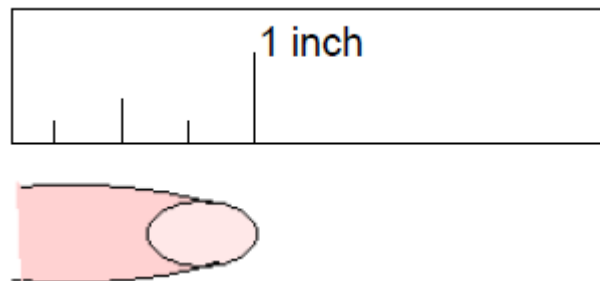
A term for a fraction whose numerator is greater than or equal to its denominator.

inch (in)

inch (in)



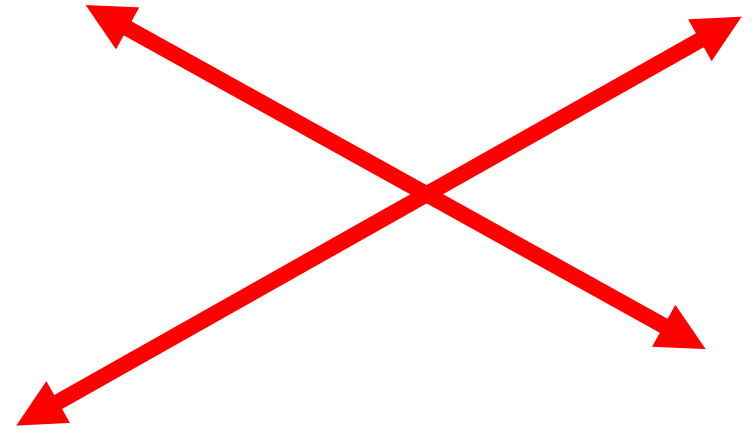
inch (in)



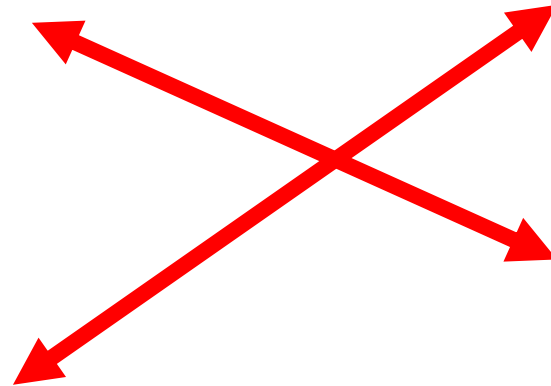
A customary unit of
length.
12 inches = 1 foot.

intersecting lines

**intersecting
lines**



**intersecting
lines**



Lines that cross
at a point.

inverse operations

**inverse
operations**

**Multiplication and division
are inverse operations.**

$$8 \times 5 = 40$$
$$40 \div 5 = 8$$

**Multiplication and division
are inverse operations.**

$$8 \times 5 = 40$$
$$40 \div 5 = 8$$

**inverse
operations**

Operations that
undo each other.

kilogram (kg)

kilogram (kg)



Math book

About 2 1/2 pounds

kilogram (kg)



Math book

About 2 1/2 pounds

A metric unit of mass equal to 1000 grams.

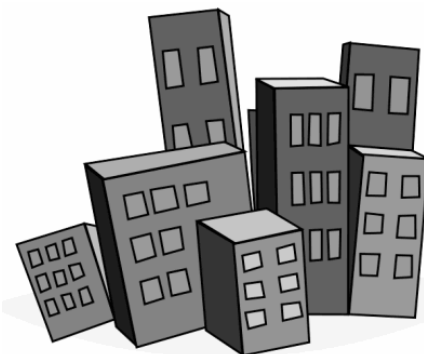
kilometer (km)

kilometer (km)



A kilometer (km) is about the length of 4 city blocks.

kilometer (km)

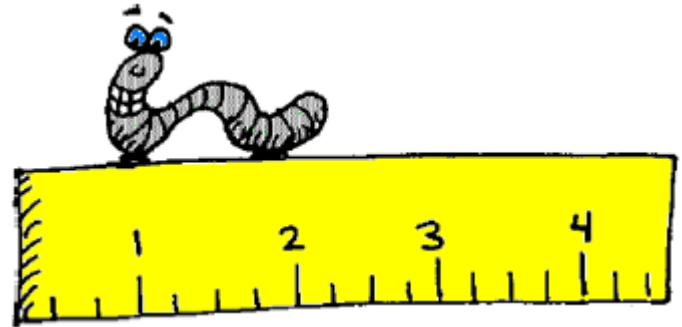


A kilometer (km) is about the length of 4 city blocks.

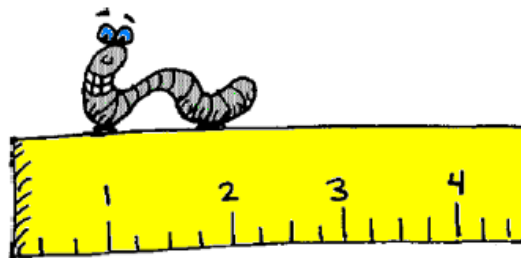
A metric unit of length equal to 1000 meters.

length

length



length



How long something is.
The distance from one
point to another.
Length is measured in units
such as inches, feet,
centimeters, etc.

less than

less than



$$3 < 5$$

less than



$$3 < 5$$

Less than is used to compare two numbers when the first number is smaller than the second number.

like denominators

like
denominators

$$\frac{3}{8} \quad \frac{5}{8} \quad \frac{7}{8}$$

like
denominators

$$\frac{3}{8} \quad \frac{5}{8} \quad \frac{7}{8}$$

Denominators in two
or more fractions that
are the same.

line

line



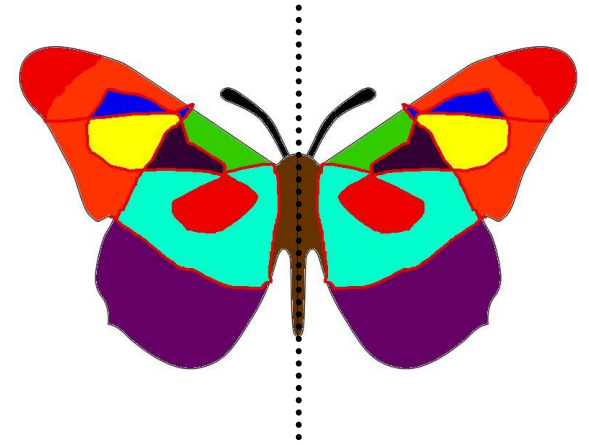
line



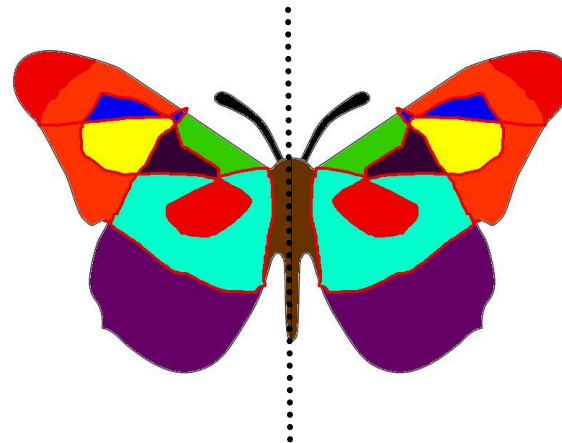
A set of connected points
continuing without end
in both directions.

line of symmetry

line of
symmetry



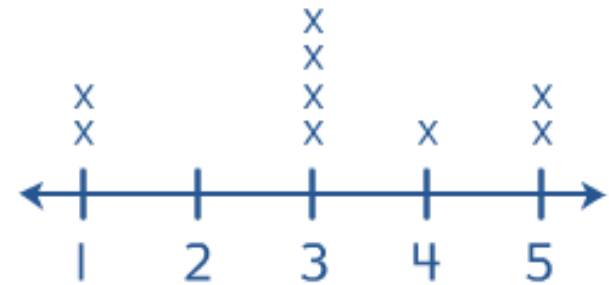
line of
symmetry



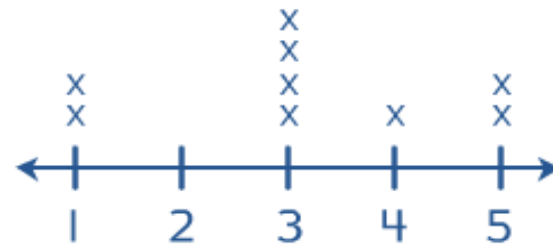
A line that
divides a figure
into two
congruent halves
that are mirror
images of each
other.

line plot

line plot



line plot



A diagram showing frequency of data on a number line.

line segment

line
segment



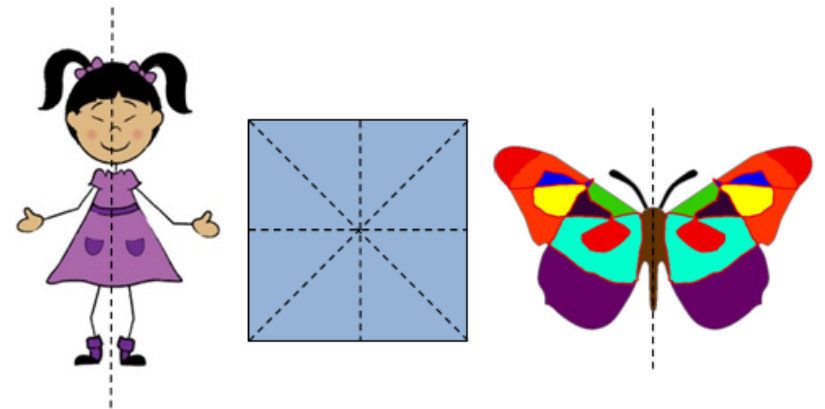
line
segment



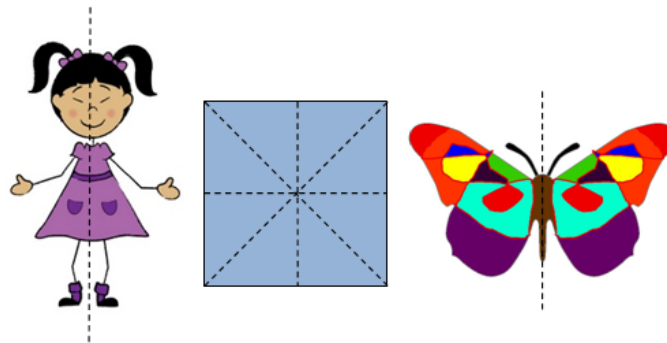
A part of a line with
two endpoints.

line symmetric figures

line symmetric figures



line symmetric figures



Figures that can be folded in half and its two parts match exactly.

liter (L)

liter (L)

large bottle of soda or
bottle of water



1,000 mL = 1 L

large bottle of soda or
bottle of water



1,000 mL = 1 L

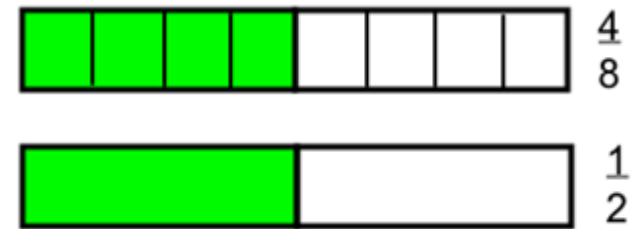
liter (L)

The basic unit of
capacity in the metric
system.

1 liter = 1,000 milliliters.

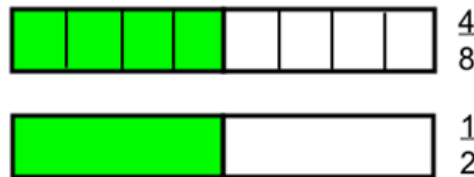
lowest terms

lowest terms



$\frac{4}{8}$ in lowest terms is $\frac{1}{2}$

lowest terms



$\frac{4}{8}$ in lowest terms is $\frac{1}{2}$

When a fraction is expressed with the fewest possible pieces, it is in lowest terms. (Also called *simplest form*.)

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)

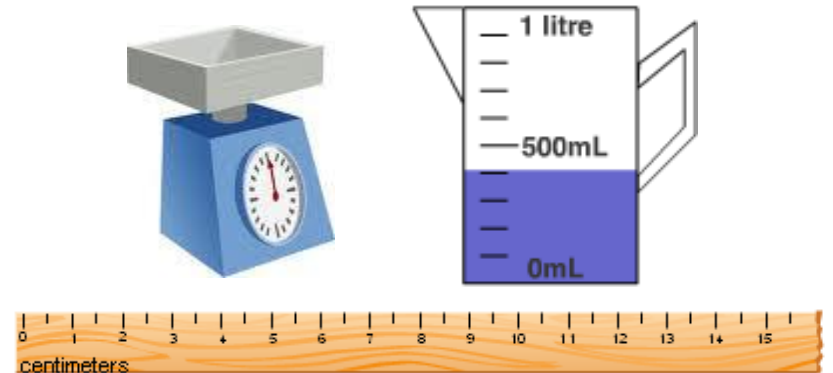


A standard unit of length in the metric system.

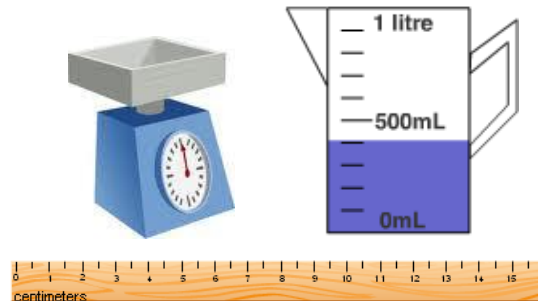
A baseball bat is *about* 1 meter long.

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



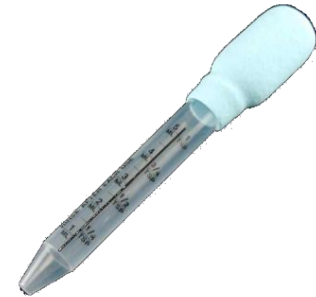
Two times around the average roller coaster is *about* 1 mile.

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

milliliter (mL)

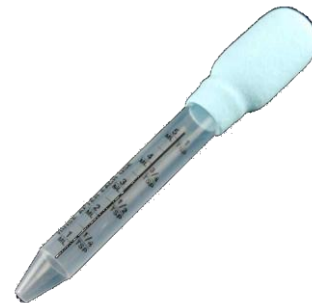
This holds about 10 drops or 1 milliliter.

milliliter (mL)



This holds about 10 drops or 1 milliliter.

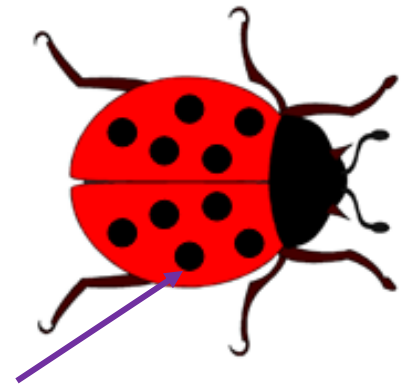
milliliter (mL)



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

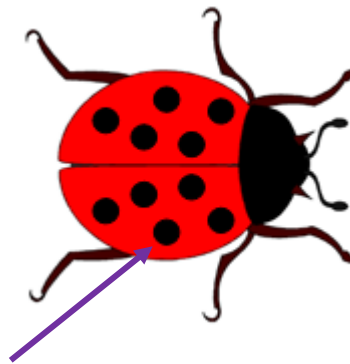
millimeter (mm)

millimeter (mm)



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

millimeter (mm)



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

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

minute (min)

minute (min)



minute (min)



One sixtieth of an hour or 60 seconds.

mixed number

mixed
number

$1\frac{5}{8}$

$4\frac{3}{4}$

mixed
number

$1\frac{5}{8}$

$4\frac{3}{4}$

A number that has a whole number (not 0) and a fraction.

multiple

multiple

**12 is a multiple of 3
(and of 4)
because $3 \times 4 = 12$**

multiple

**12 is a multiple of 3
(and of 4)
because $3 \times 4 = 12$**

A product of a given whole number and any other whole number.

multiplicative comparison

multiplicative comparison



Amy has 5 baseball cards. Jeff has 3 times as many cards as Amy. How many baseball cards did they have altogether?

multiplicative comparison

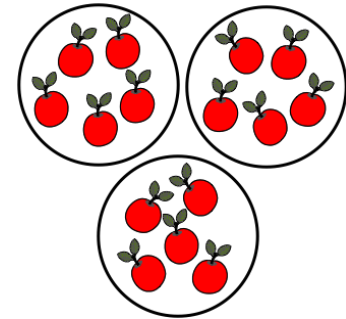


Amy has 5 baseball cards. Jeff has 3 times as many cards as Amy. How many baseball cards did they have altogether?

Compare by asking or telling how many times more one amount is as another. e.g. 4 times greater than.

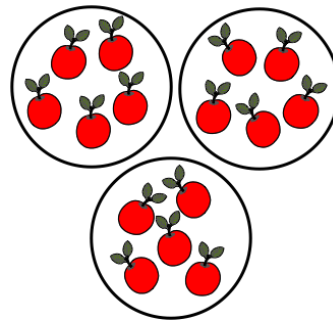
multiply

multiply



3×5 is the same as $5 + 5 + 5$

multiply

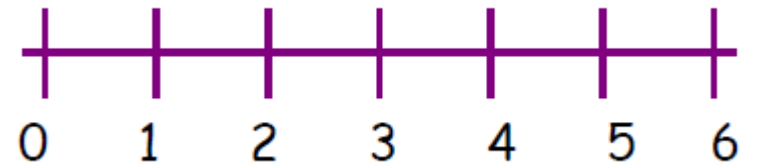


$$3 \times 5 = 5 + 5 + 5$$

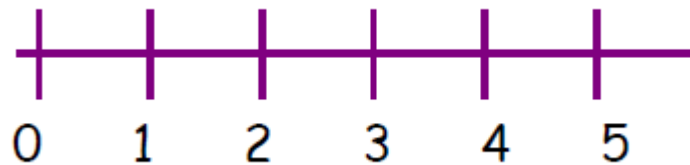
The operation of repeated addition of the same number.

number line

number line



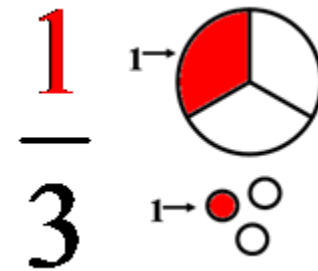
number
line



A diagram that
represents numbers as
points on a line.

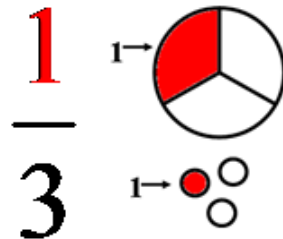
numerator

numerator



- Parts shaded
- Parts we are using

numerator

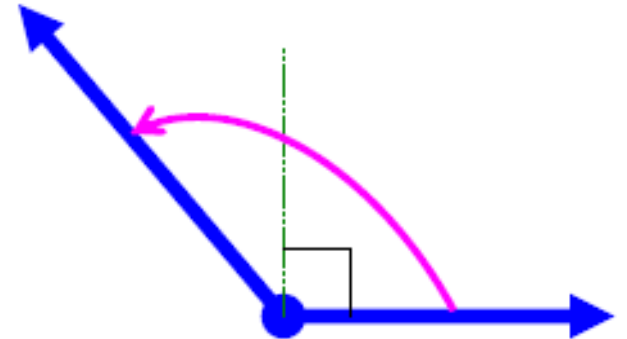


- Parts shaded
- Parts we are using

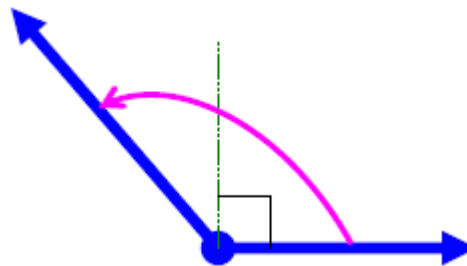
The number written above the line in a fraction. It tells how many equal parts are described in the fraction.

obtuse angle

obtuse angle



obtuse angle




An angle with a measure greater than 90° but less than 180° .

Order of Operations


Order of Operations

Order of Operations

1. Do operations in parentheses.
 2. Multiply and divide in order from left to right.
 3. Add and subtract in order from left to right.
- 

Order of Operations

Order of Operations

1. Do operations in parentheses.
 2. Multiply and divide in order from left to right.
 3. Add and subtract in order from left to right.
- 

A set of rules that tells the order in which to compute.

ounce (oz)

ounce (oz)



A strawberry weighs about 1 ounce.

ounce (oz)

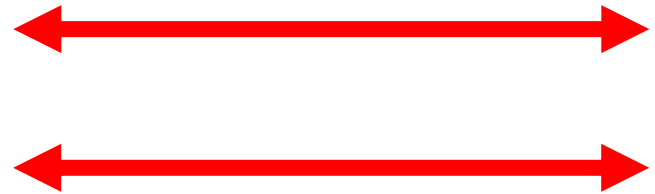


A strawberry weighs about 1 ounce.

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.

parentheses

parentheses

()

$$\begin{aligned}(2 + 3) \times 4 \\ 5 \times 4 \\ 20\end{aligned}$$

parentheses

()

$$\begin{aligned}(2 + 3) \times 4 \\ 5 \times 4 \\ 20\end{aligned}$$

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

pattern

pattern



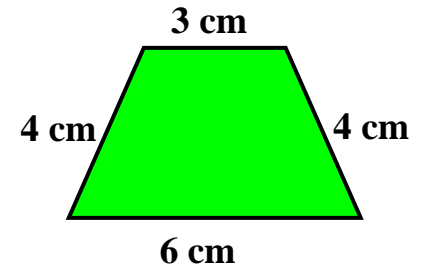
pattern



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

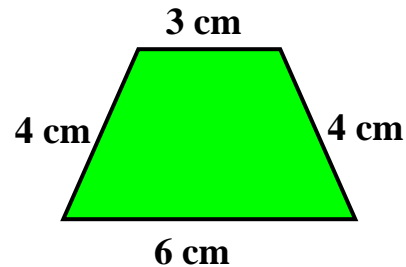
perimeter

perimeter



$$\begin{aligned}\text{Perimeter} &= 4\text{cm} + 6\text{cm} + 4\text{cm} + 3\text{cm} \\ &= 17\text{cm}\end{aligned}$$

perimeter

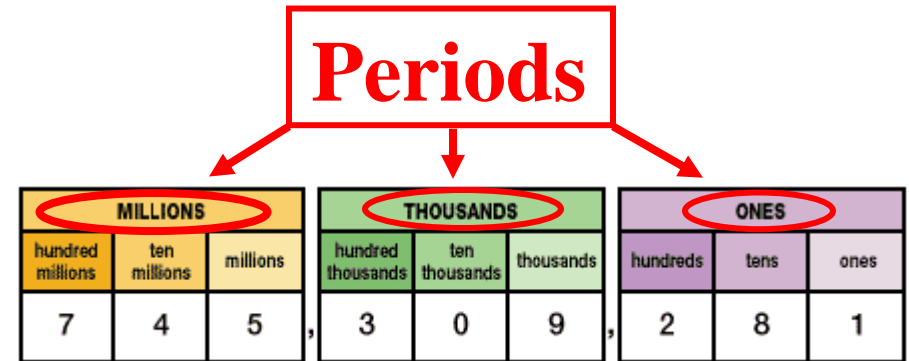


$$\begin{aligned}\text{Perimeter} &= 4\text{cm} + 6\text{cm} + 4\text{cm} + 3\text{cm} \\ &= 17\text{cm}\end{aligned}$$

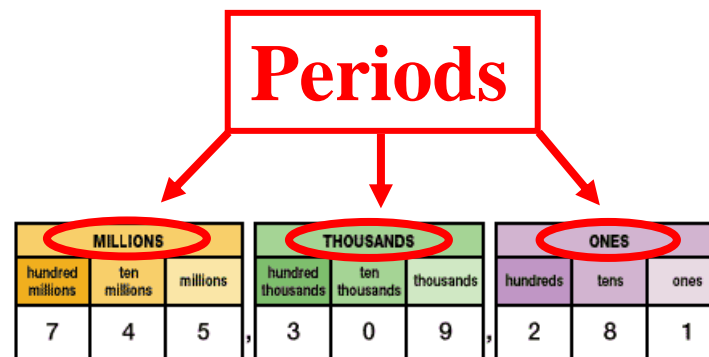
The distance around the outside of a figure.

period

period



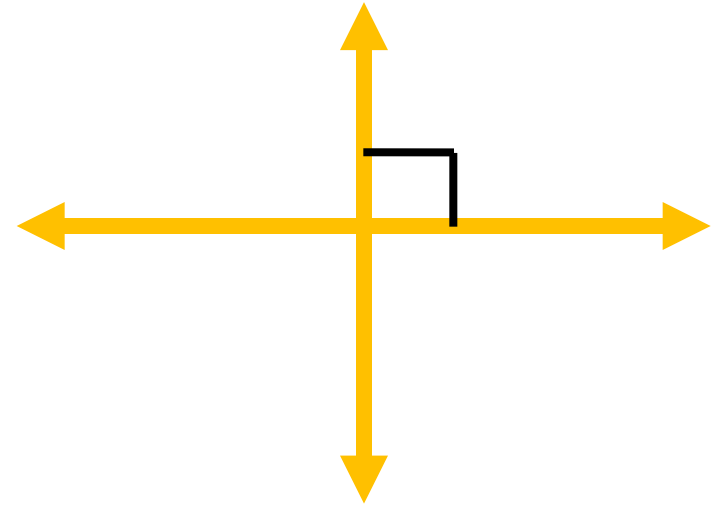
period



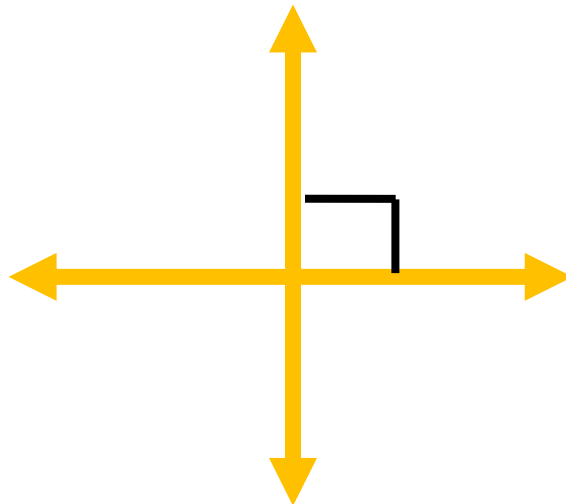
In a large number, periods are groups of 3 digits separated by commas or by spaces.

perpendicular lines

perpendicular lines



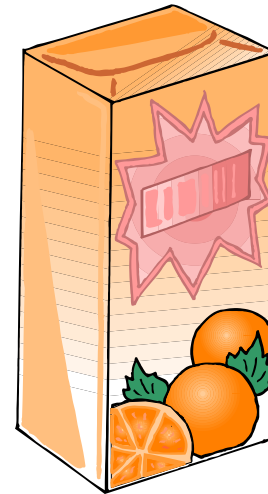
perpendicular
lines



Two intersecting lines
that form right angles.

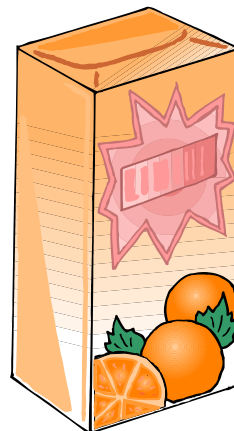
pint (pt)

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

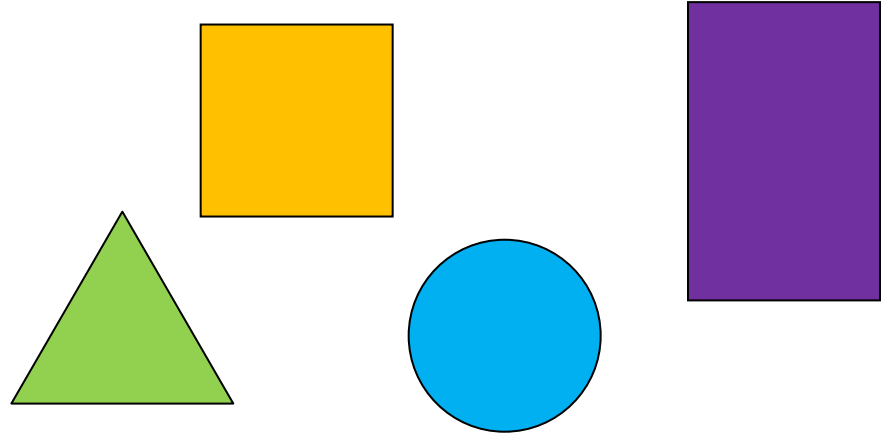
place value

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

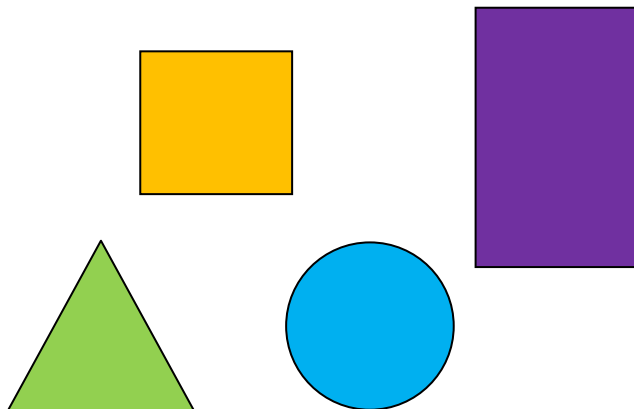
The value of the place of a digit in a number.

plane figure

plane
figure



plane
figure



A two-dimensional figure.

point

point



point



The exact location in space
represented by a dot.

pound (lb)

pound (lb)



A loaf of bread weighs *about* 1 pound.

pound (lb)

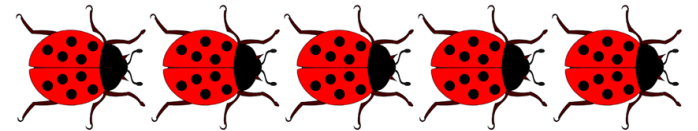


A loaf of bread weighs *about*
1 pound.

A customary unit of
weight.
1 pound = 16 ounces.

prime number

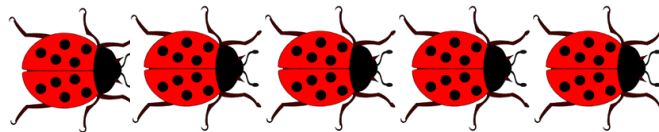
prime
number



$$1 \times 5 = 5$$

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.

product

product

$$5 \times 3 = 15$$


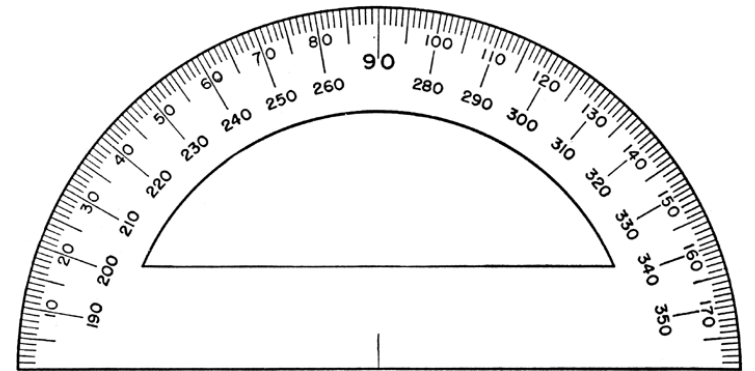
product

$$5 \times 3 = 15$$


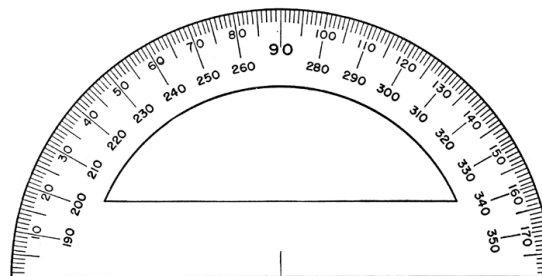
The answer to a
multiplication
problem.

protractor

protractor



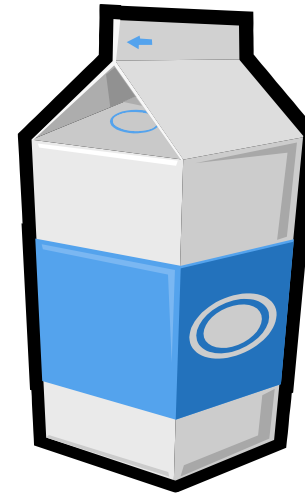
protractor



A tool used to measure and draw angles.

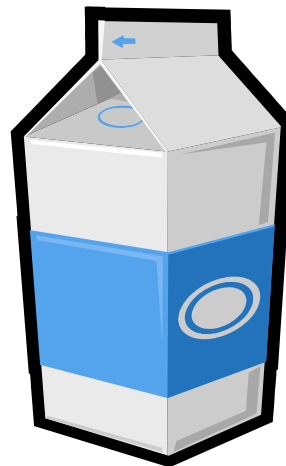
quart (qt)

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

$$7 \overline{) 56} \quad \text{8}$$

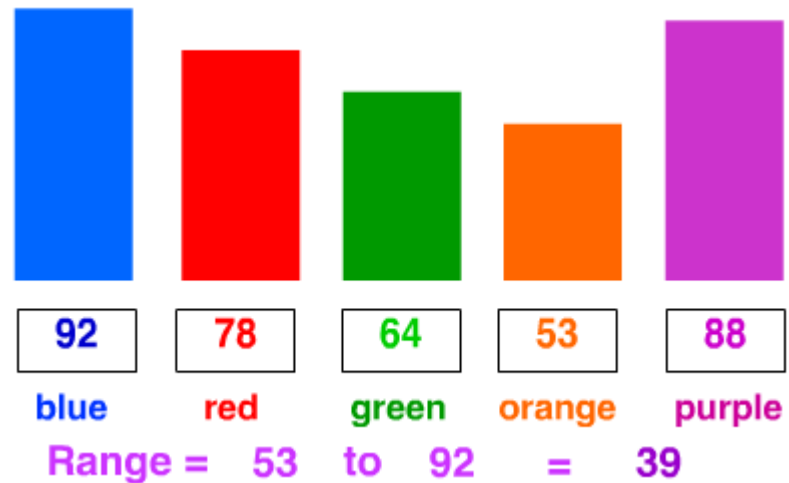
quotient

$$7 \overline{) 56} \quad \text{8}$$

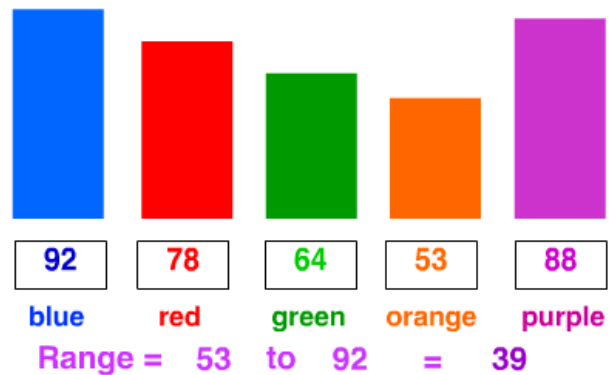
The answer to a
division problem.

range

range



range



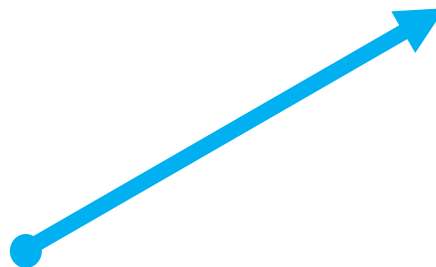
The difference between the greatest number and the least number in a set of data.

ray

ray



ray



A part of a line that has one endpoint and goes on forever in one direction.

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.

$$60 \times 30 = 1,800$$

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.

$$60 \times 30 = 1,800$$

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

The answer is A.

An answer that is based on good number sense.

related facts

related facts

Related Facts for 3, 5, 8

$3 + 5 = 8 \quad 8 - 5 = 3$

$5 + 3 = 8 \quad 8 - 3 = 5$

related facts

Related Facts for 3, 5, 8

$3 + 5 = 8 \quad 8 - 5 = 3$

$5 + 3 = 8 \quad 8 - 3 = 5$

Related addition and subtraction facts or related multiplication and division facts.

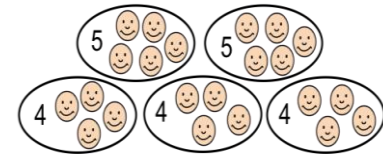
Also called *fact family*.

remainder

remainder

There are 22 students going on a field trip.
There are 5 chaperones.
How many students can be in a group?

$$22 \div 5 = 4 \text{ R}2$$

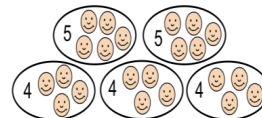


4 or 5 students can be in a group.

remainder

There are 22 students going on a field trip.
There are 5 chaperones.
How many students can be in a group

$$22 \div 5 = 4 \text{ R}2$$

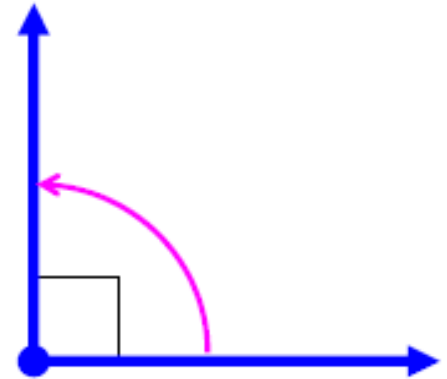


4 or 5 students can be in a group.

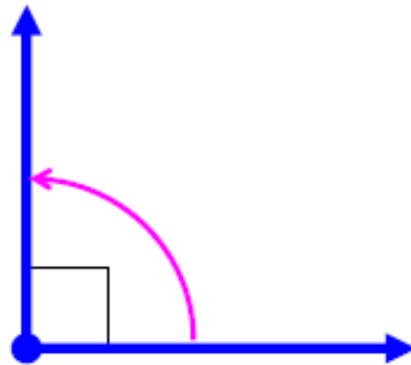
The amount left over
when one number is
divided by another.

right angle

right angle



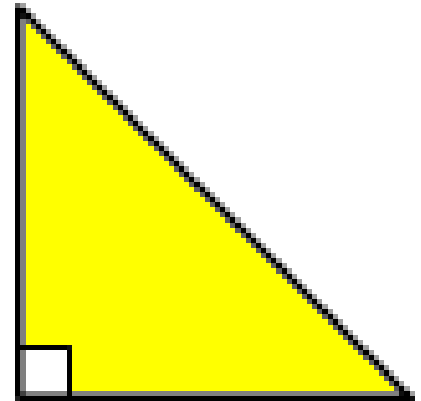
right angle



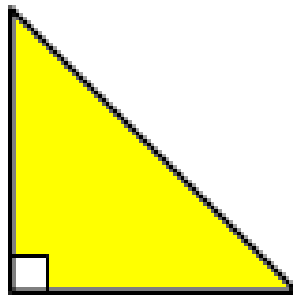
An angle that measures
exactly 90° .

right triangle

right
triangle



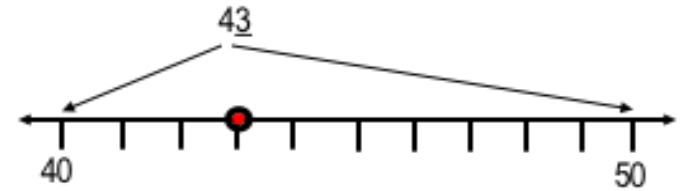
right
triangle



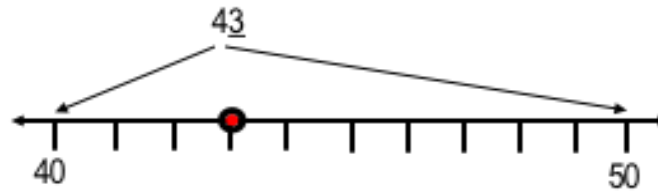
A triangle that has one
 90° angle.

round a whole number

round a
whole number



round a whole
number



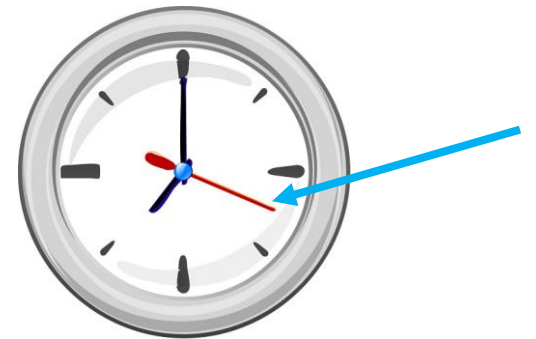
To find the nearest ten,
hundred, thousand,
(and so on).

second (sec)

(unit of time)

second (sec)

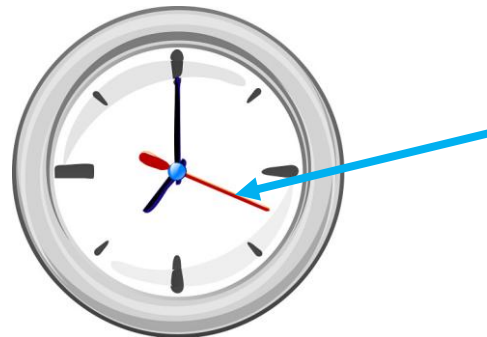
(unit of time)



60 seconds = 1 minute

second (sec)

(unit of time)



60 seconds = 1 minute

One sixtieth of a minute. There are 60 seconds in a minute.

sequence

sequence

2, 5, 8, 11, 14, 17...

sequence

2, 5, 8, 11, 14, 17...

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

simplest form

simplest form



simplest form



When a fraction is expressed with the fewest possible pieces, it is in simplest form. (Also called *lowest terms*.)

simplify

simplify



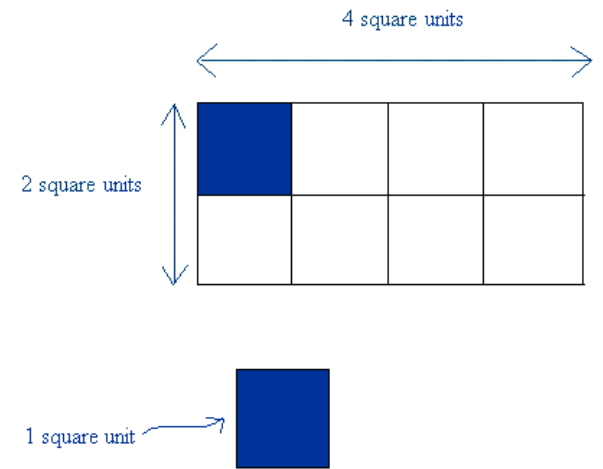
simplify



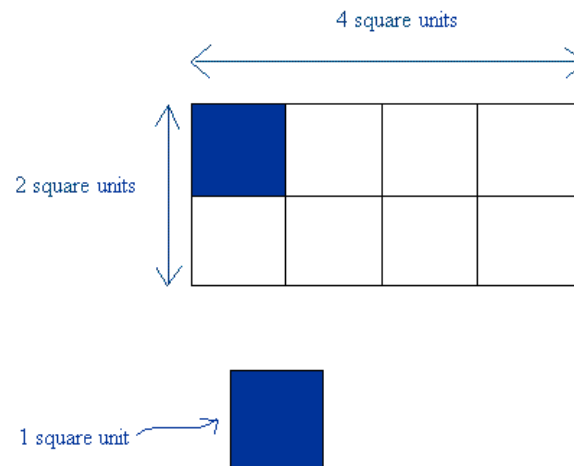
To express a fraction in simplest form.

square unit

square
unit



square
unit



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

standard form

standard
form

12,345

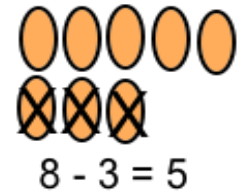
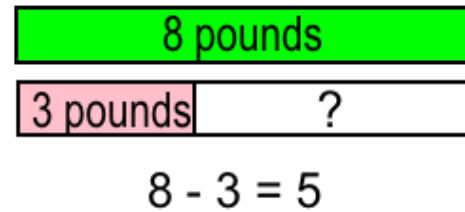
standard
form

12,345

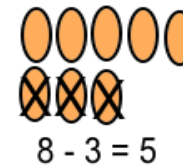
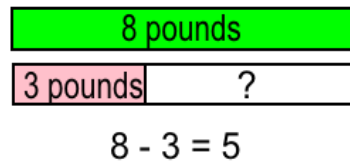
A common or usual
way of writing a
number using digits.

subtract

subtract



subtract



An operation that gives the difference between two numbers. Subtraction can be used to compare two numbers, or to find out how much is left after some is taken away.

sum

sum

$$453 + 929 = 1,382$$

sum



sum

$$453 + 929 = 1,382$$

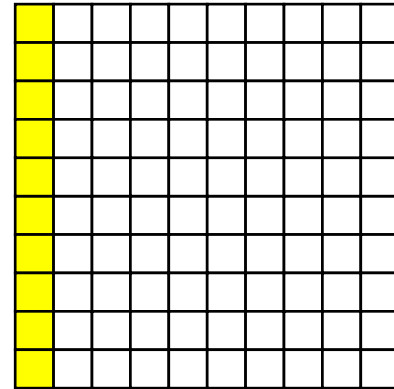
sum



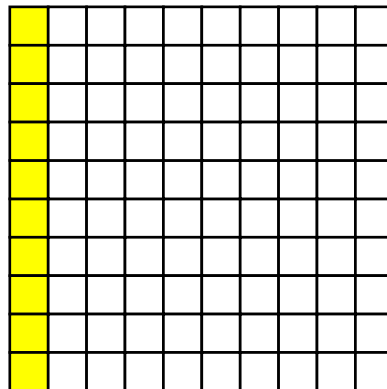
The answer to an
addition problem.

tenth

tenth



tenth



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

time interval

time
interval



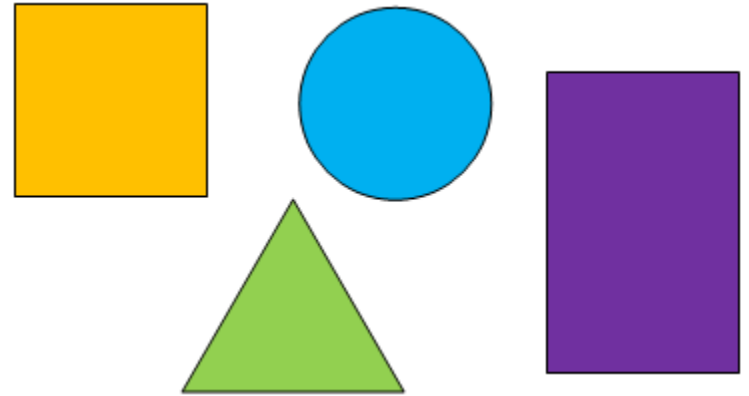
time
interval



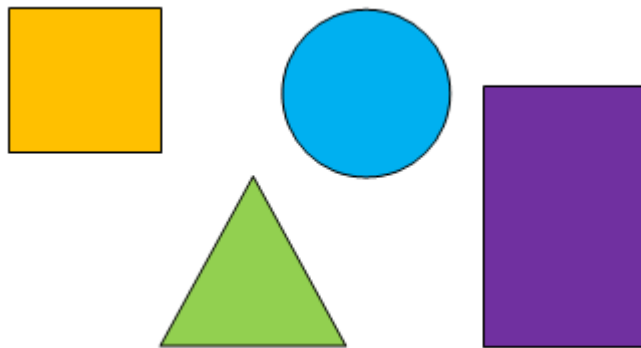
A duration of a
segment of time.

two-dimensional

two-dimensional



two-dimensional



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

unit fraction

unit fraction

$$\frac{1}{2}$$

unit
fraction

$$\frac{1}{2}$$

A fraction that has
1 as its numerator.

unlike denominators

unlike
denominators

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

unlike
denominators

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

Denominators that
are not equal.

variable

variable

$$5 \times b = 10$$

b is a variable worth 2

variable

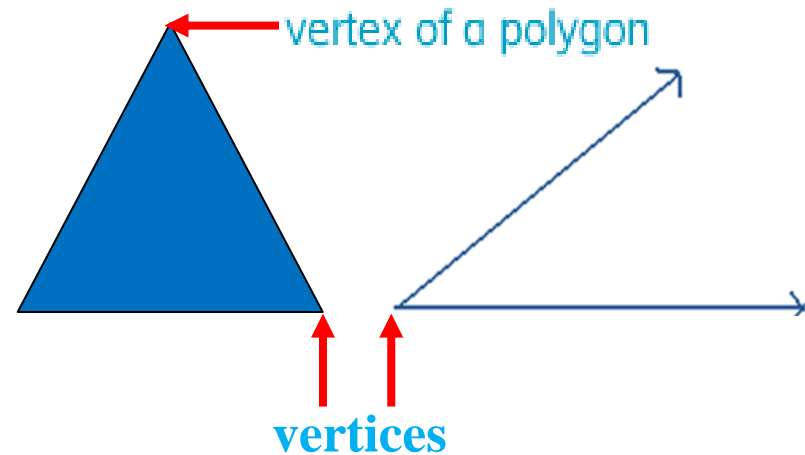
$$5 \times b = 10$$

b is a variable worth 2

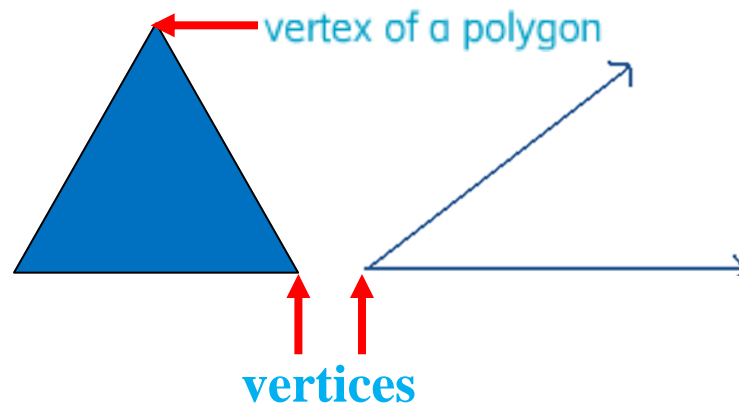
A letter or symbol that represents a number.

vertex

vertex



vertex



The point at which two line segments, lines, or rays meet to form an angle.

volume

volume



liquid volume

volume



liquid volume

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

word form

word form

The word form of 12,345
is twelve thousand
three hundred
forty-five

word form

The word form of 12,345
is twelve thousand
three hundred
forty-five

A way of using words
to write a number.

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.

Zero Property of Multiplication

**Zero Property
of Multiplication**

$$8 \times 0 = 0$$

**Zero Property
of Multiplication**

$$8 \times 0 = 0$$

The product of
any number and
zero is zero.