

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/>

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)

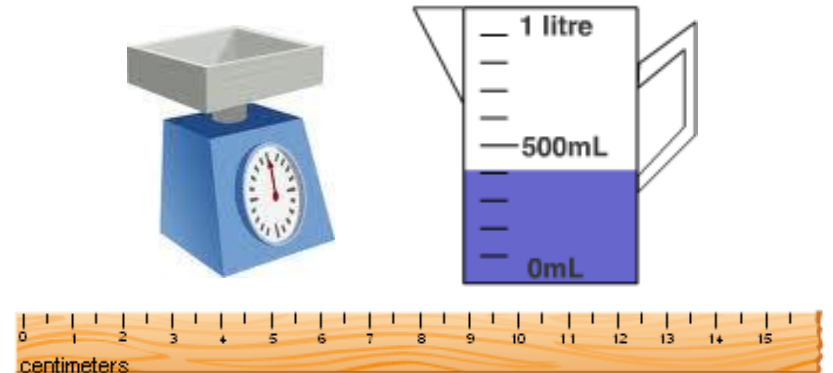


A standard unit of
length in the metric
system.

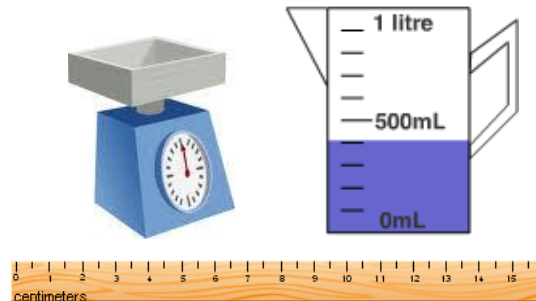
A baseball bat is *about* 1 meter long.

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



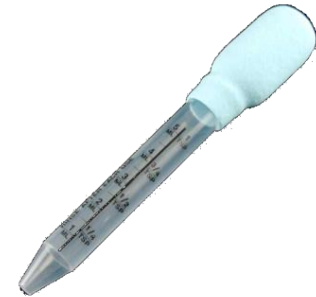
A customary unit of
length.
1 mile = 5,280 feet

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

milliliter (mL)

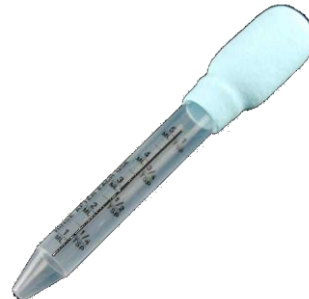
This holds about 10 drops or 1 milliliter.

milliliter (mL)



This holds about 10 drops or 1 milliliter.

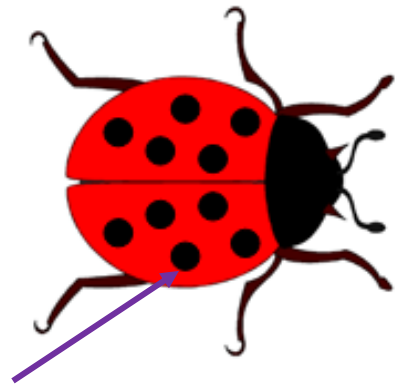
milliliter (mL)



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

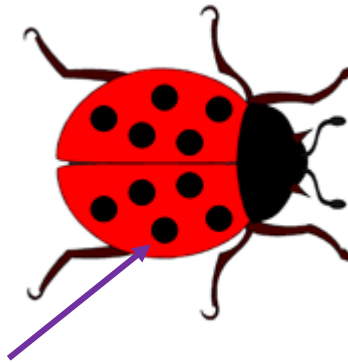
millimeter (mm)

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

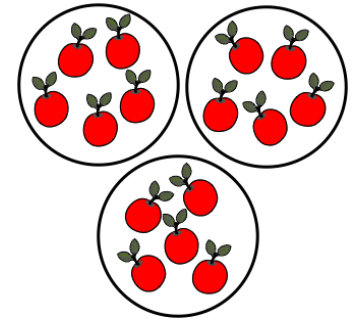


Amy has 5 baseball cards. Jeff has 3 times as many cards as Amy. How many baseball cards did they have altogether?

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

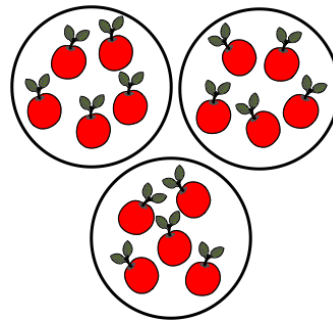
multiply

multiply



3×5 is the same as $5 + 5 + 5$

multiply

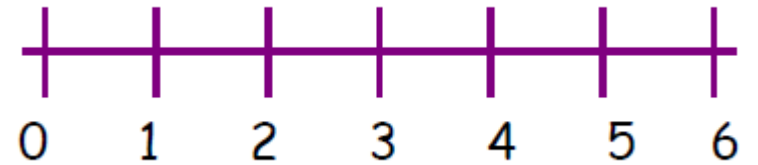


$$3 \times 5 = 5 + 5 + 5$$

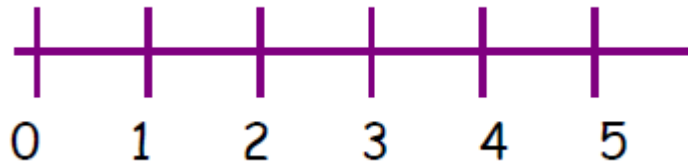
The operation of repeated
addition of the same
number.

number line

number line



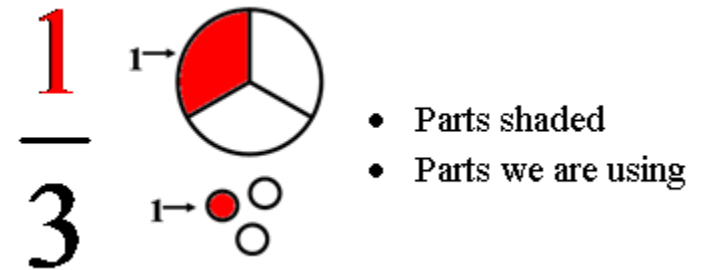
number
line



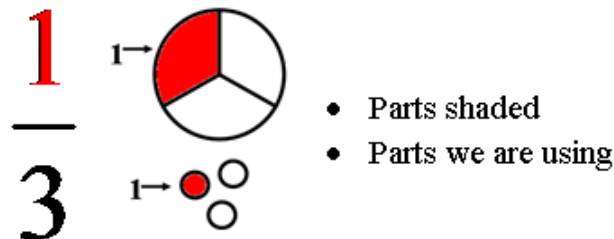
A diagram that
represents numbers as
points on a line.

numerator

numerator



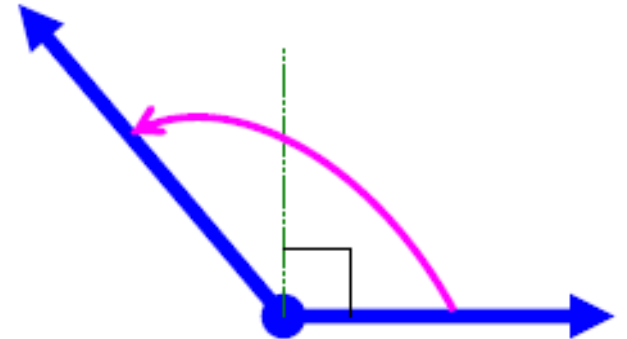
numerator



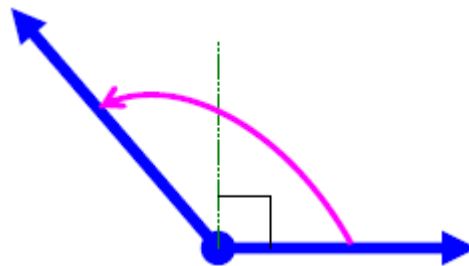
The number written above the line in a fraction. It tells how many equal parts are described in the fraction.

obtuse angle

obtuse angle



obtuse angle

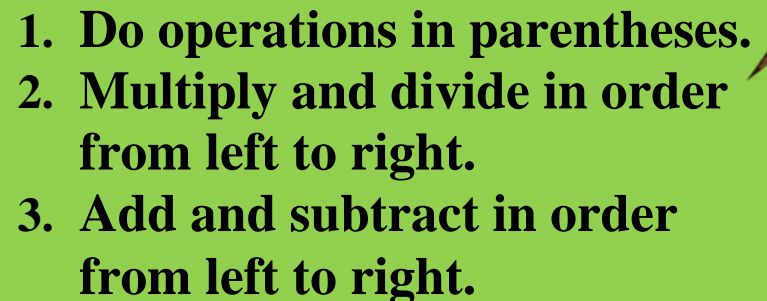


An angle with a measure greater than 90° but less than 180° .

Order of Operations

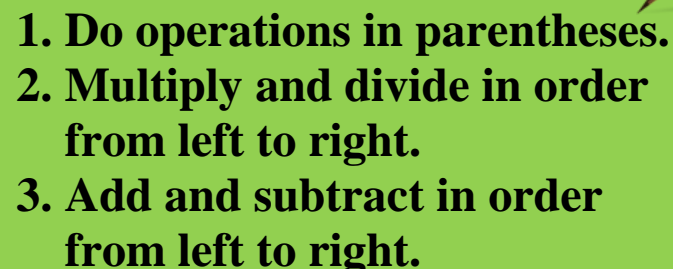
Order of Operations

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)

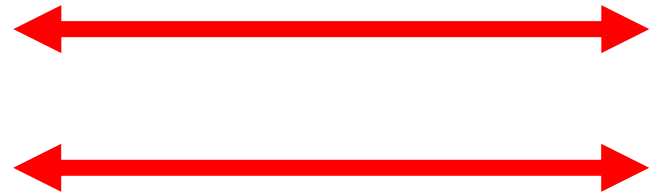


A strawberry weighs about 1 ounce.

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



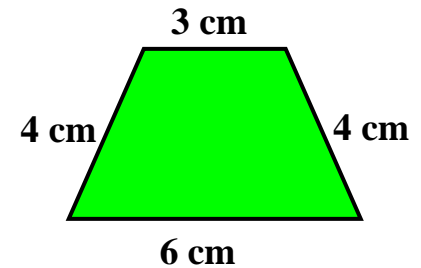
pattern



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

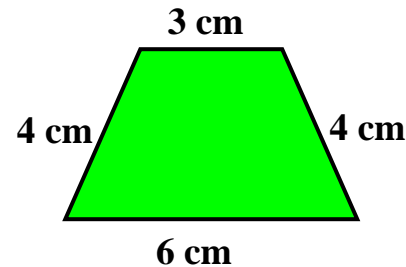
perimeter

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

Periods

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

period

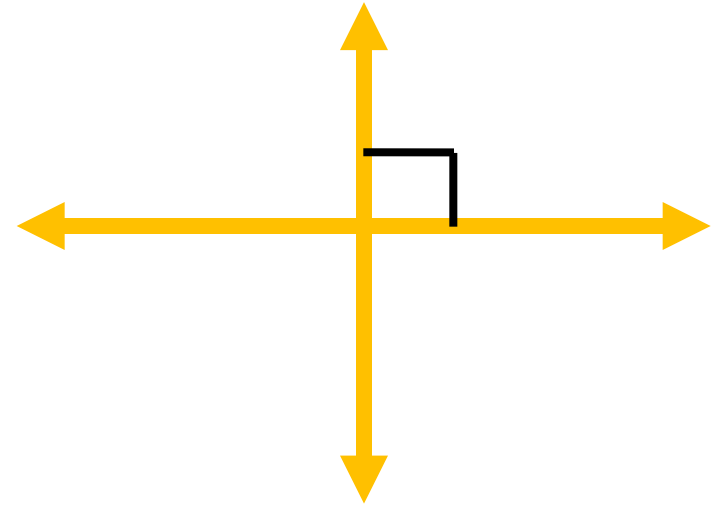
Periods

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

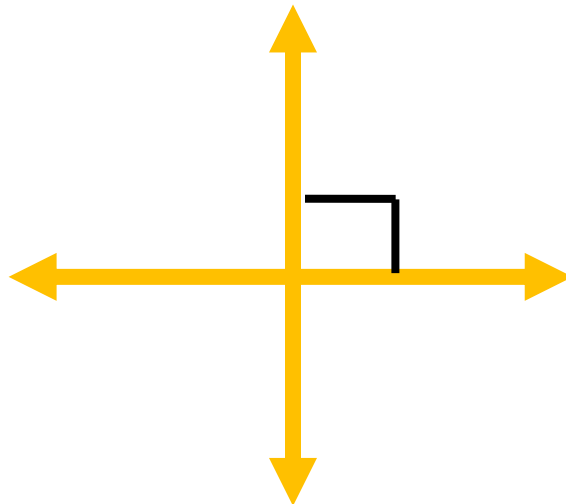
In a large number, periods are groups of 3 digits separated by commas or by spaces.

perpendicular lines

perpendicular lines



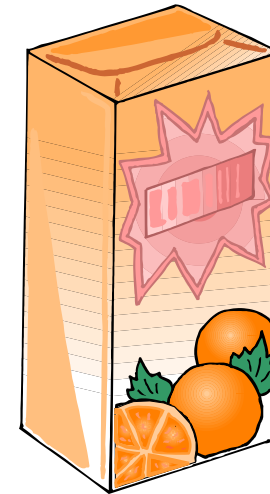
perpendicular
lines



Two intersecting lines
that form right angles.

pint (pt)

pint (pt)



The orange
juice carton
holds 1 pint.



The orange
juice carton
holds 1 pint.

pint (pt)

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

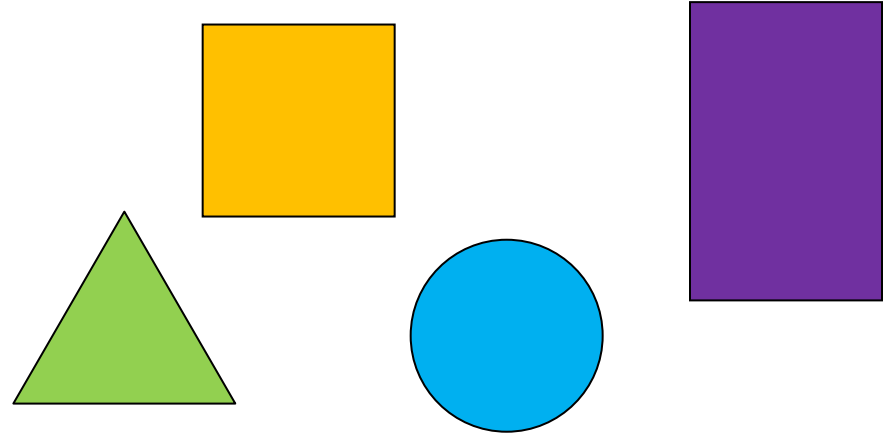
place value

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

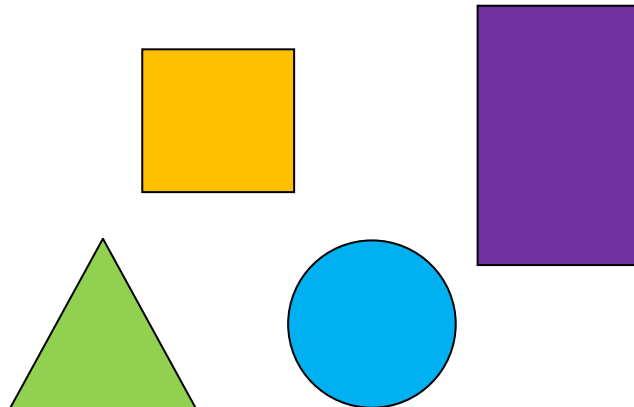
The value of the place of a digit in a number.

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)

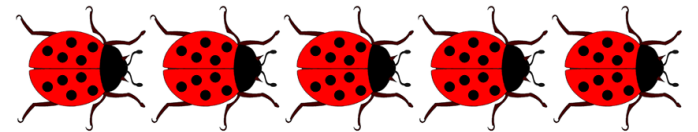


A loaf of bread weighs *about*
1 pound.

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

prime number

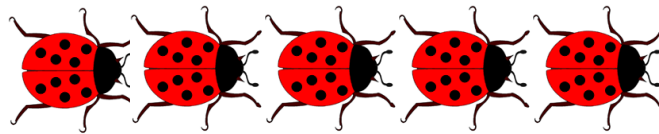
prime
number



$$1 \times 5 = 5$$

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

$$5 \times 3 = 15$$


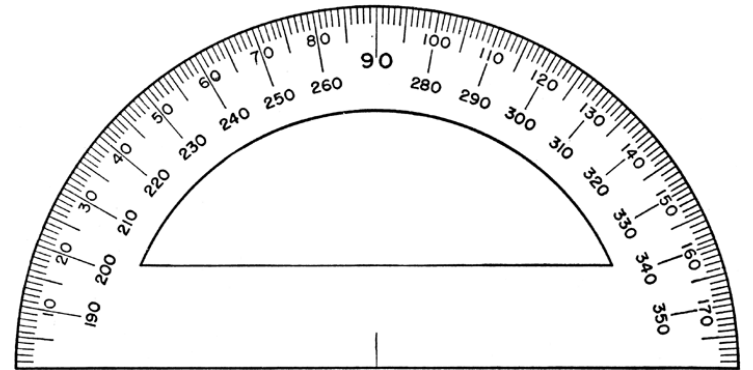
product

$$5 \times 3 = 15$$


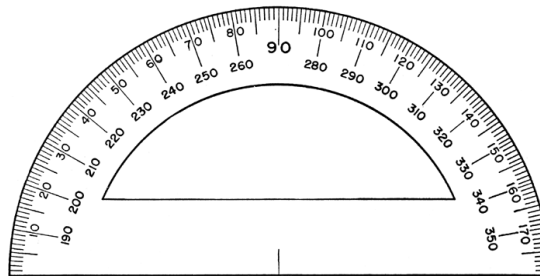
The answer to a
multiplication
problem.

protractor

protractor



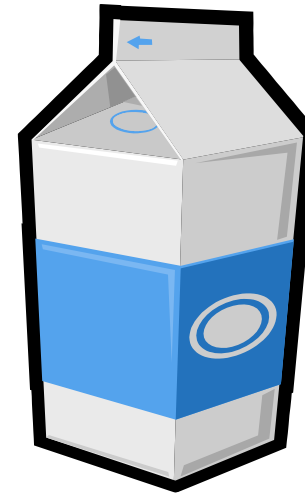
protractor



A tool used to measure
and draw angles.

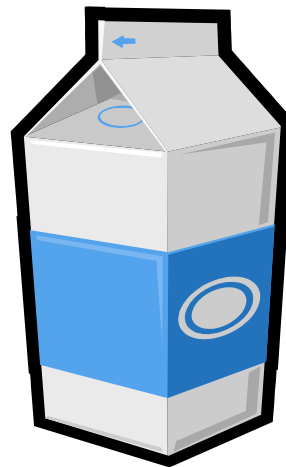
quart (qt)

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

$$\begin{array}{r} 8 \\ 7 \overline{) 56} \end{array}$$

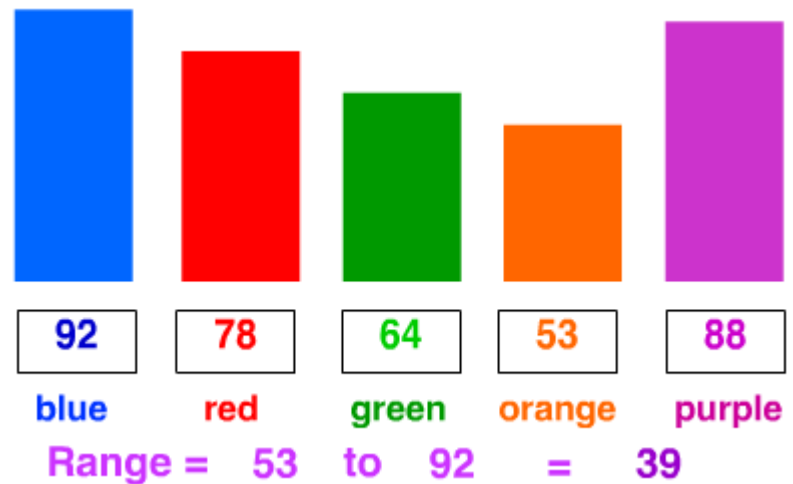
quotient

$$\begin{array}{r} 8 \\ 7 \overline{) 56} \end{array}$$

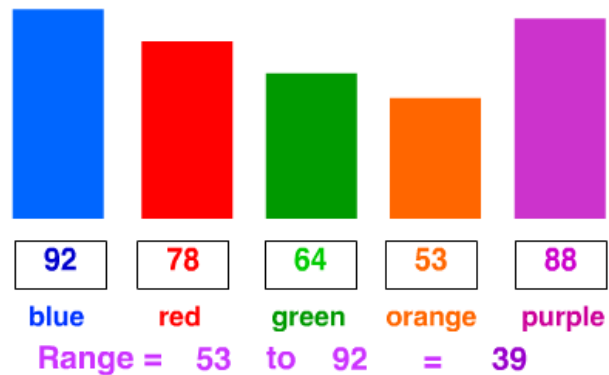
The answer to a
division problem.

range

range



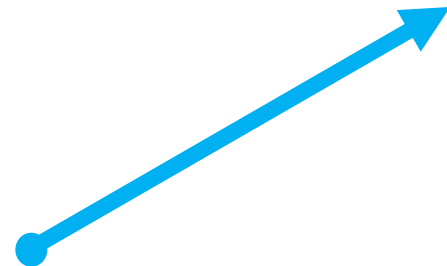
range



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.

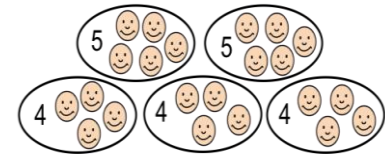
Also called
fact family.

remainder

remainder

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

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

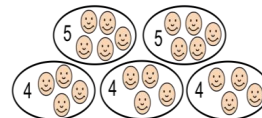


4 or 5 students can be in a group.

remainder

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

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

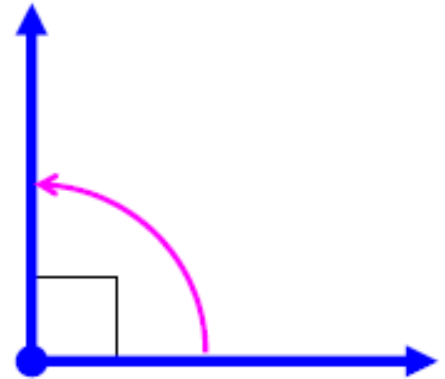


4 or 5 students can be in a group.

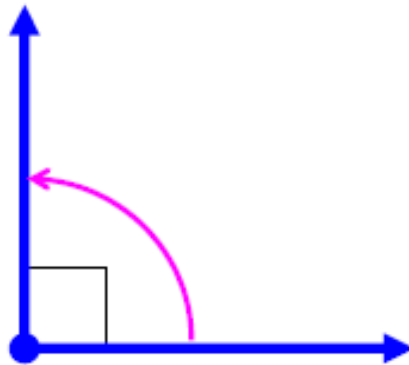
The amount left over
when one number is
divided by another.

right angle

right angle



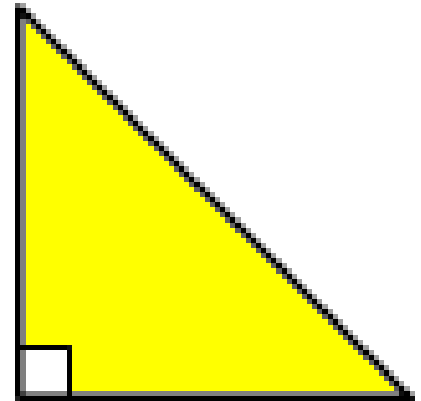
right angle



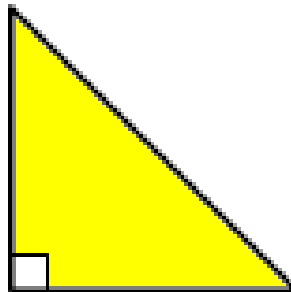
An angle that measures
exactly 90° .

right triangle

right triangle



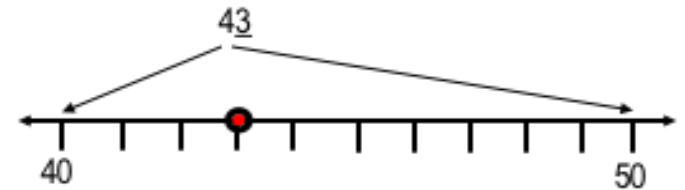
right triangle



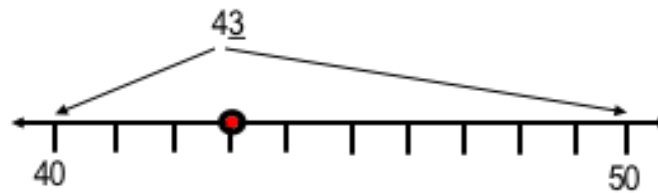
A triangle that has one
 90° angle.

round a whole number

**round a
whole number**



**round a whole
number**



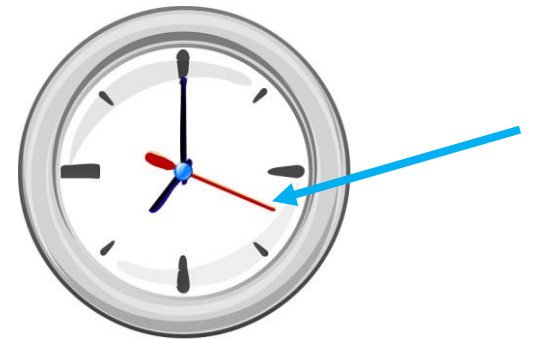
To find the nearest ten,
hundred, thousand,
(and so on).

second (sec)

(unit of time)

second (sec)

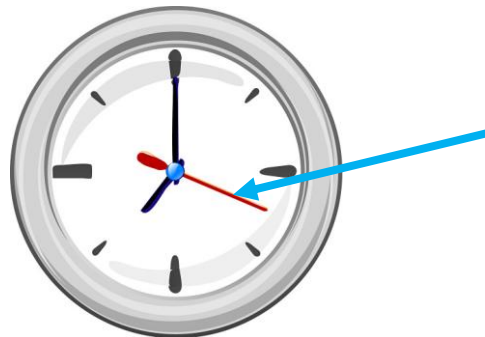
(unit of time)



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



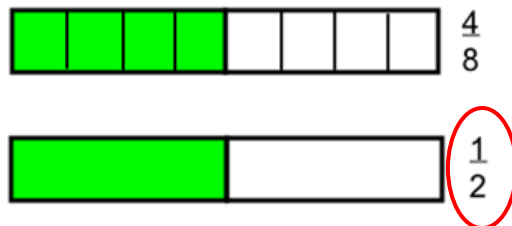
When a fraction is expressed with the fewest possible pieces, it is in simplest form. (Also called *lowest terms*.)

simplify

simplify



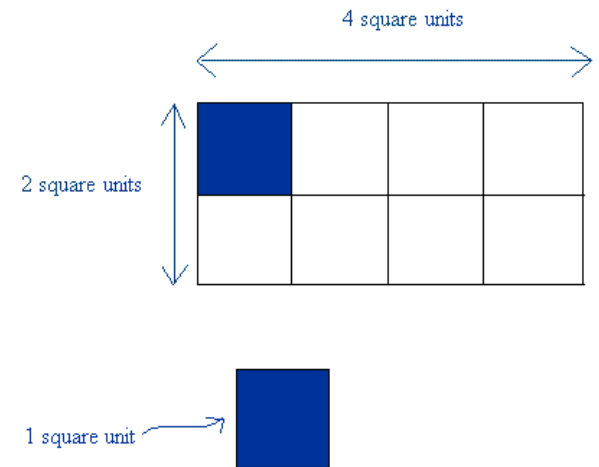
simplify



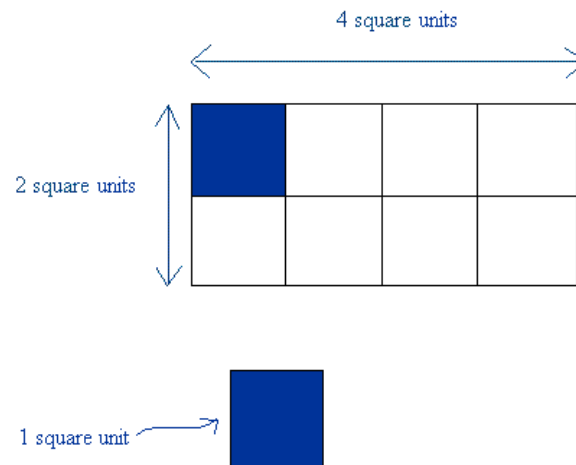
To express a fraction in simplest form.

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

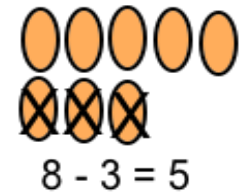
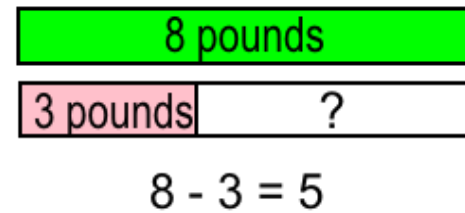
standard form

12,345

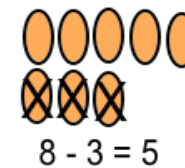
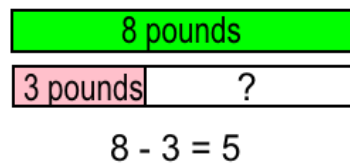
A common or usual
way of writing a
number using digits.

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

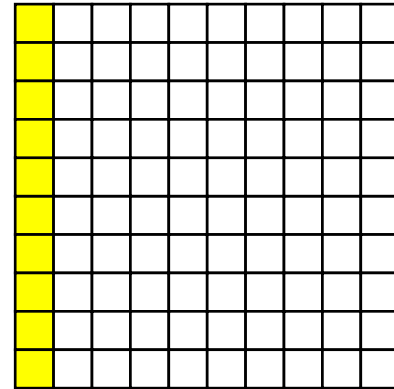
$$453 + 929 = 1,382$$

sum

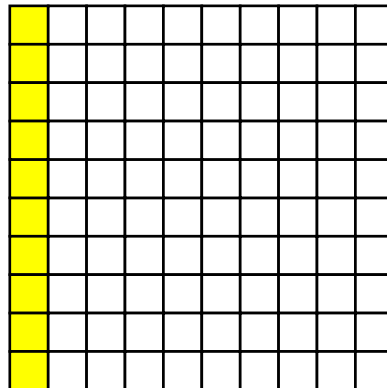
The answer to an
addition problem.

tenth

tenth



tenth



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

time interval

time interval



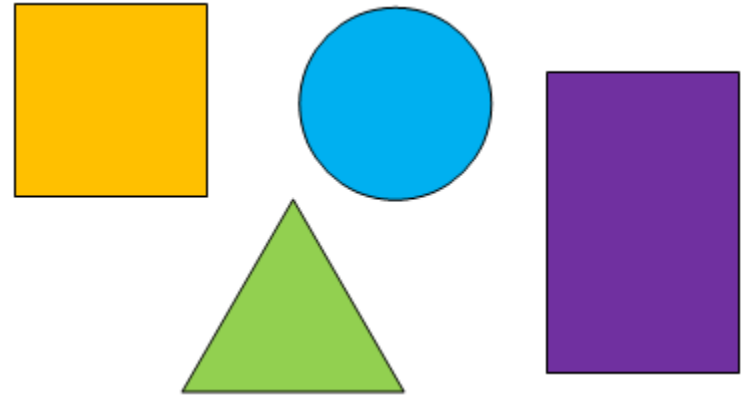
time interval



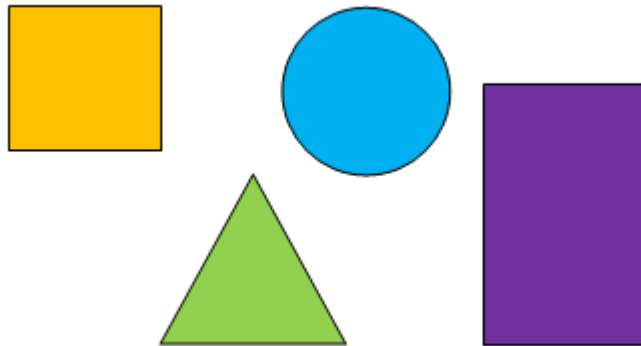
A duration of a
segment of time.

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

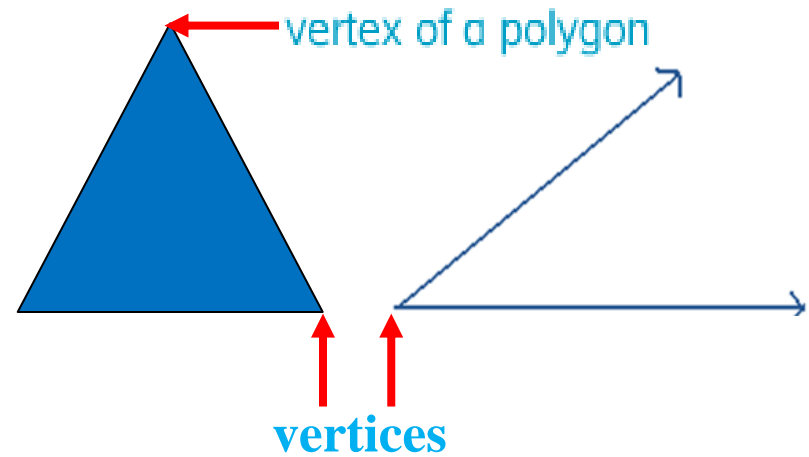
$$5 \times b = 10$$

b is a variable worth 2

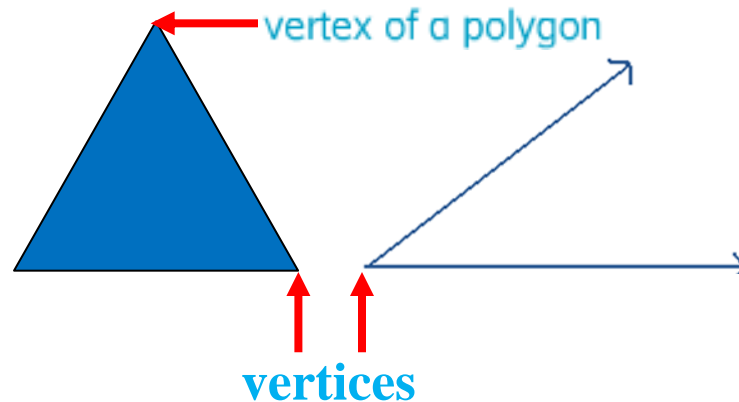
A letter or symbol that represents a number.

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

A door is *about* 1 yard wide.

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.

