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.
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acute angle

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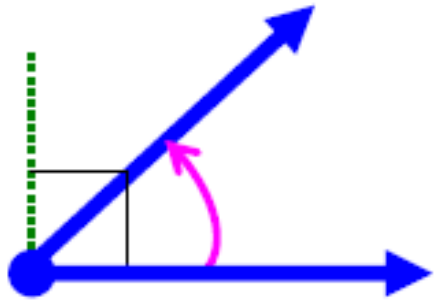
acute angle



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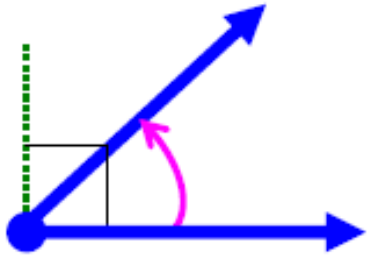
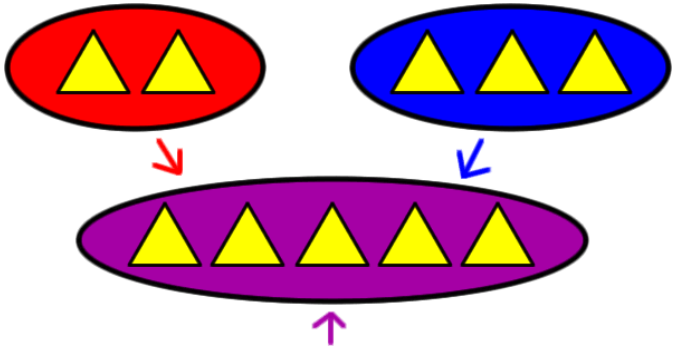
acute angle



An angle with a measure less than 90°.

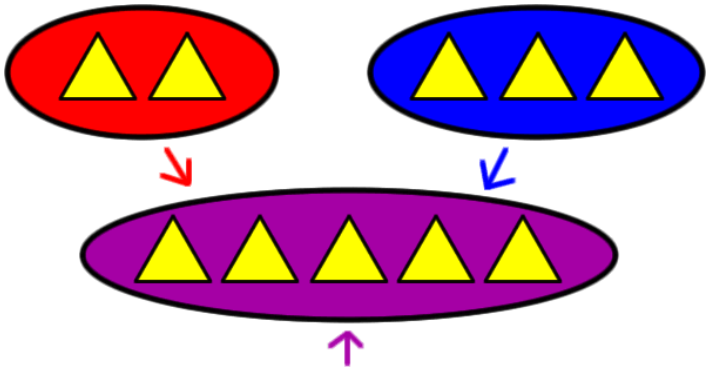
add

add



2 + 3 = 5

add



2 + 3 = 5

To combine, put together two or more quantities.

addend

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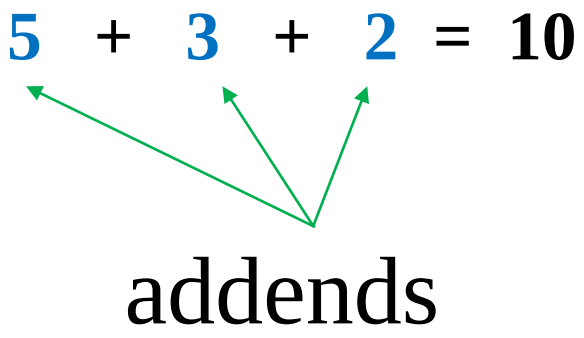
addend



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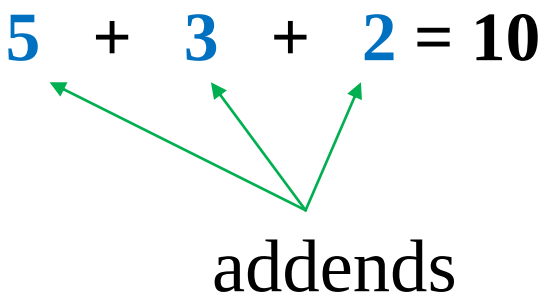
addend



Any number being added.

additive comparison

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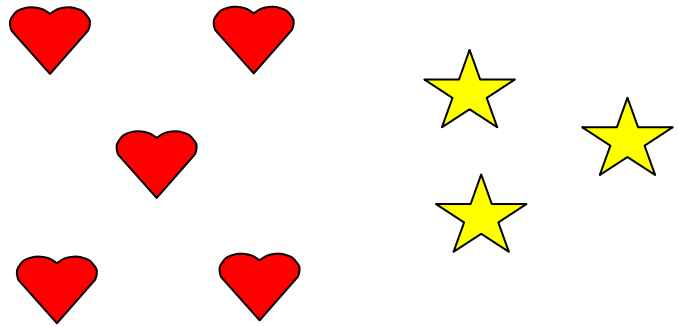
additive comparison



How many more hearts than stars are there?

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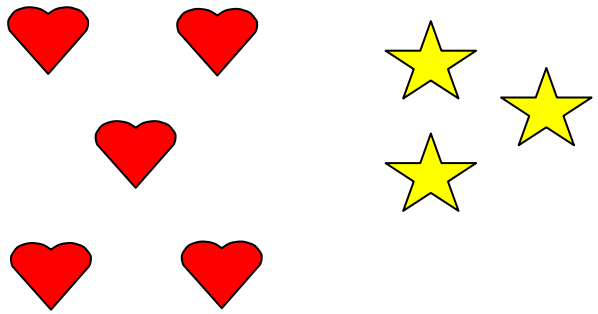
additive comparison



How many more hearts than stars are there?

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

algorithm

algorithm

24
x 3
12
60
72

Multiply the ones 3 x 4 = 12

Multiply the tens 3 x 20 = 60

Add the partial products

algorithm

24
x 3
12
60
72

Multiply the ones 3 x 4 = 12

Multiply the tens 3 x 20 = 60

Add the partial products

A step-by-step method for computing.

angle

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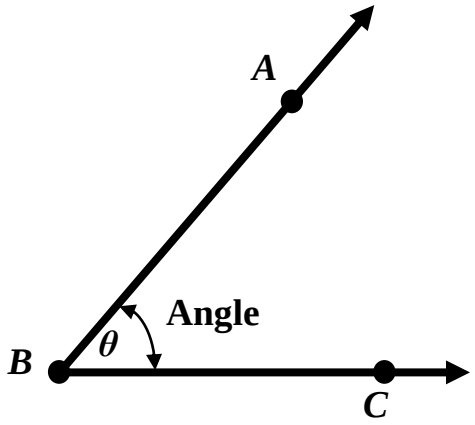
angle



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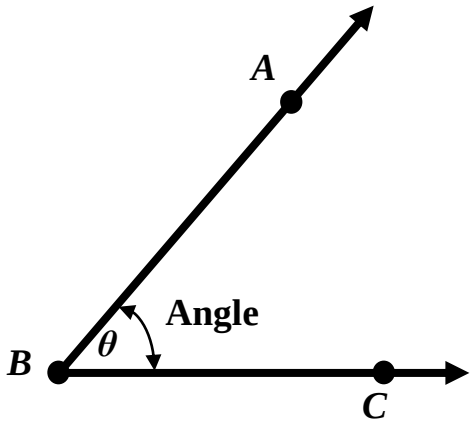
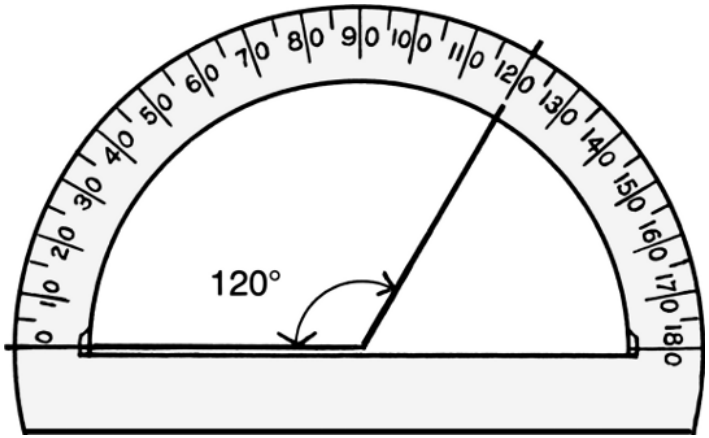
angle



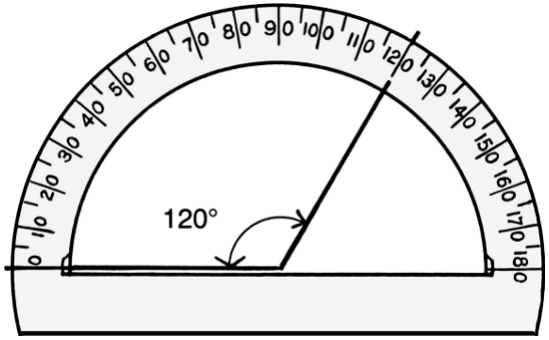
Two rays that share an endpoint.

angle measure

angle measure



angle measure

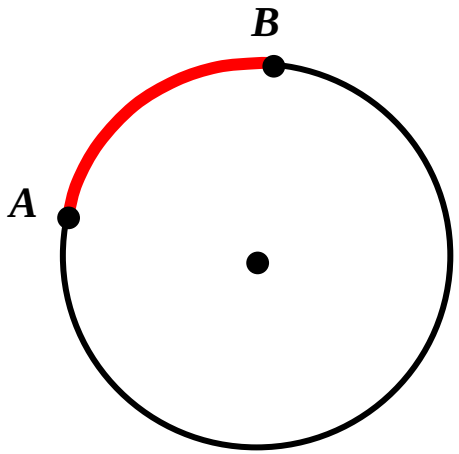


The measure of the size of an angle. It tells how far one side is turned from the other side.

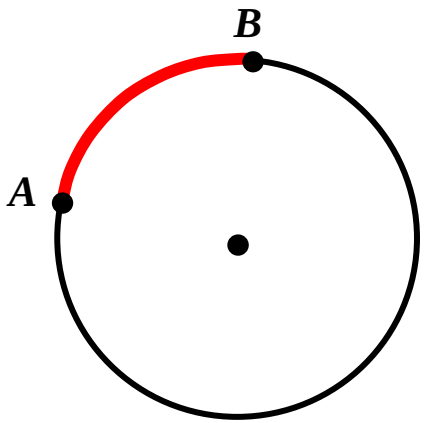
A one degree angle turns through 1/360 of a full circle.

arc

arc



arc



Part of a circle between any two of its points.

area

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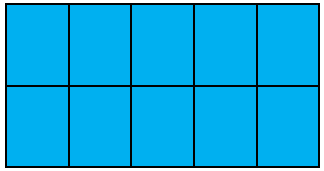
area

2 rows of 5 = 10 square units
or
2 x 5 = 10 square units



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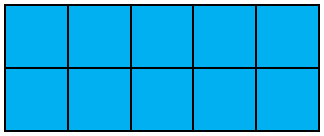
area

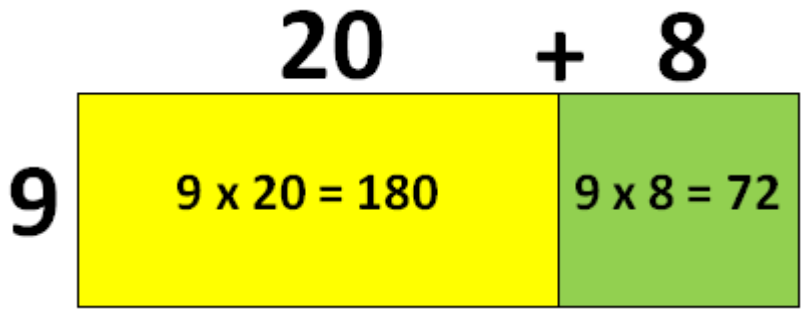
2 rows of 5 = 10 square units
or
2 x 5 = 10 square units



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

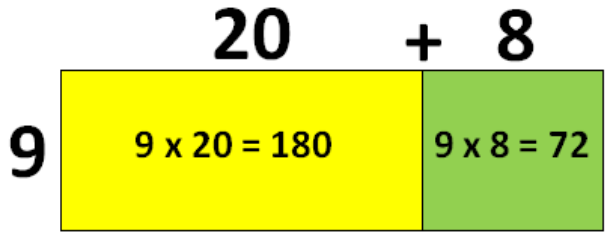
area model

area model



9 x 28 = (9 x 20) + (9 x 8) = 252

area model

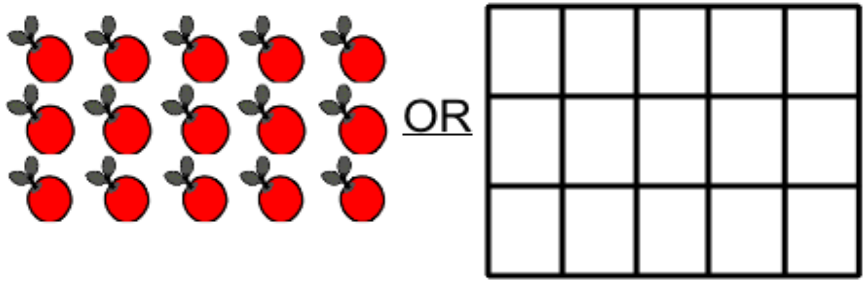


9 x 28 = (9 x 20) + (9 x 8) = 252

A model of multiplication that shows each place value product.

array

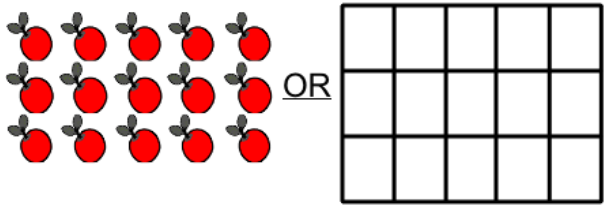
array



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.

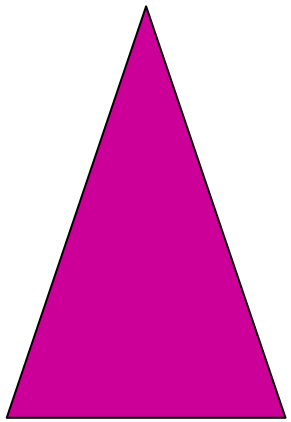
attribute

attribute

large

triangle

pink

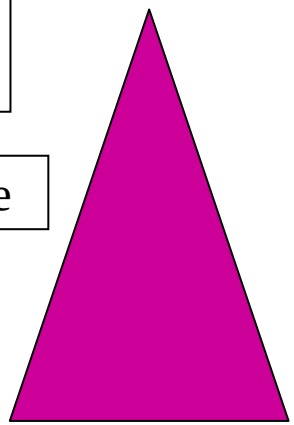


attribute

large

triangle

pink



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

benchmark fractions

benchmark fractions

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

benchmark fractions

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

Fractions that are commonly used for estimation.

capacity

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capacity

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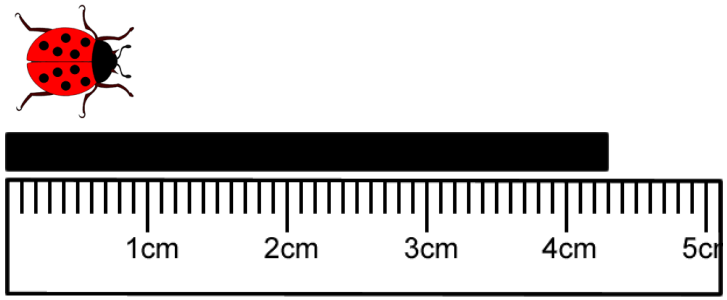
capacity

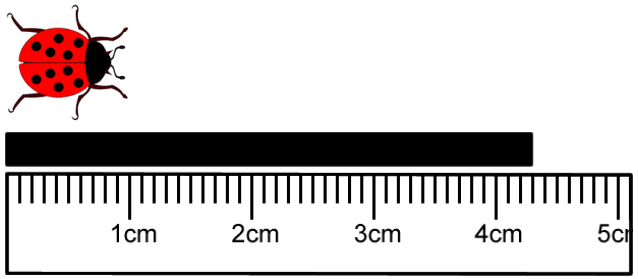
Capacity refers to the amount of liquid a container can hold.

centimeter (cm)

centimeter (cm)



centimeter (cm)



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

circle

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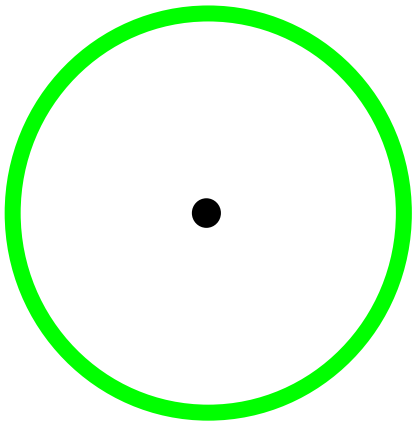
circle



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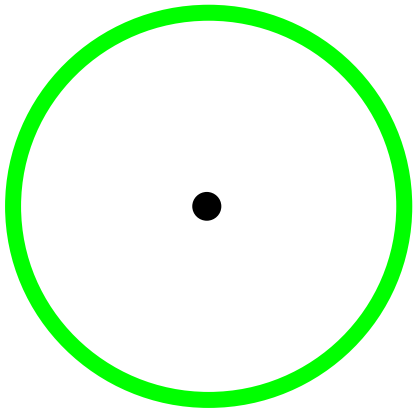
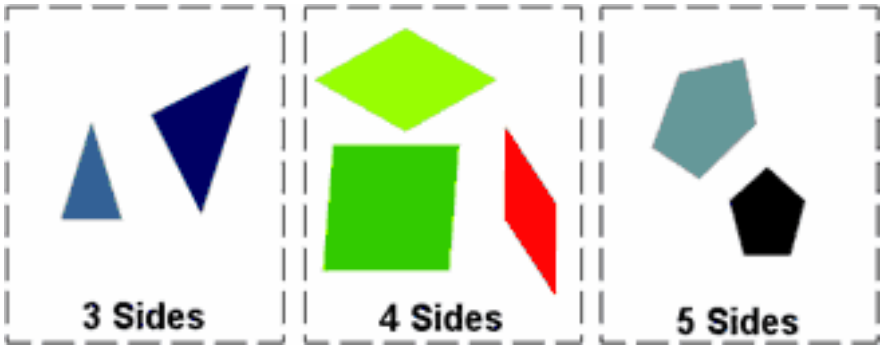
circle



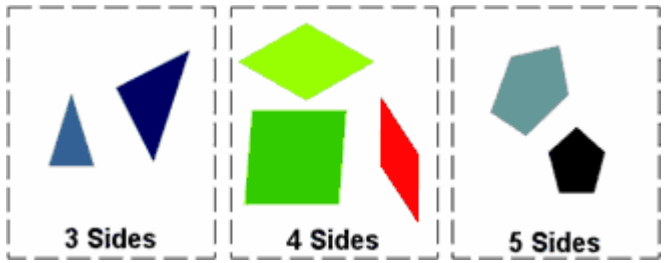
A plane figure with all points the same distance from a fixed point called a center.

classify

classify



classify



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

common denominator

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common denominator

12 is a common denominator for $\frac{2}{3}$ and $\frac{3}{4}$

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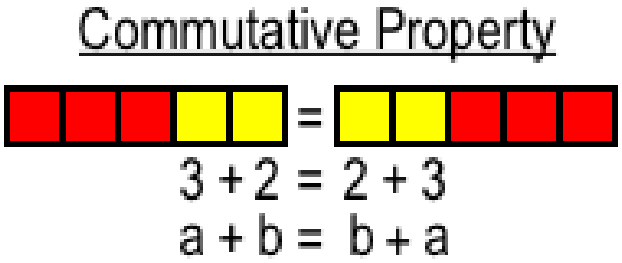
common denominator

12 is a common denominator for $\frac{2}{3}$ and $\frac{3}{4}$

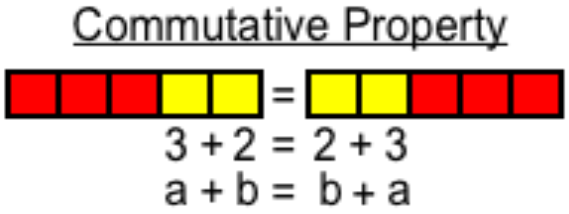
For two or more fractions, a common denominator is a common multiple of the denominators.

Commutative Property of Addition

Commutative Property of Addition



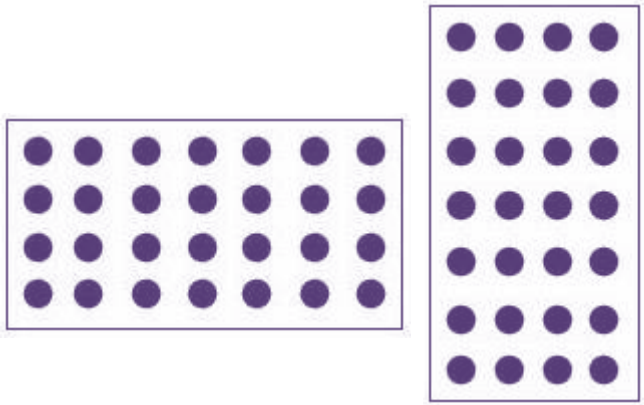
Commutative Property of Addition



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

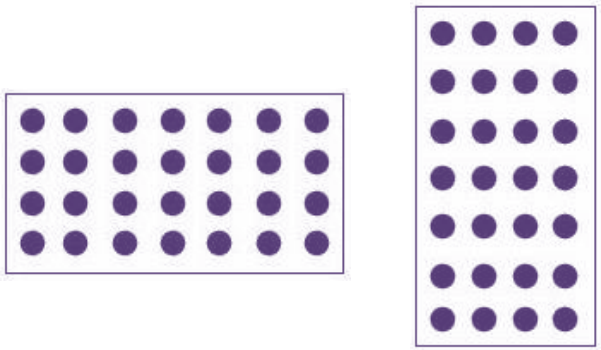
Commutative Property of Multiplication

Commutative Property of Multiplication



4 x 7 = 7 x 4

Commutative Property of Multiplication

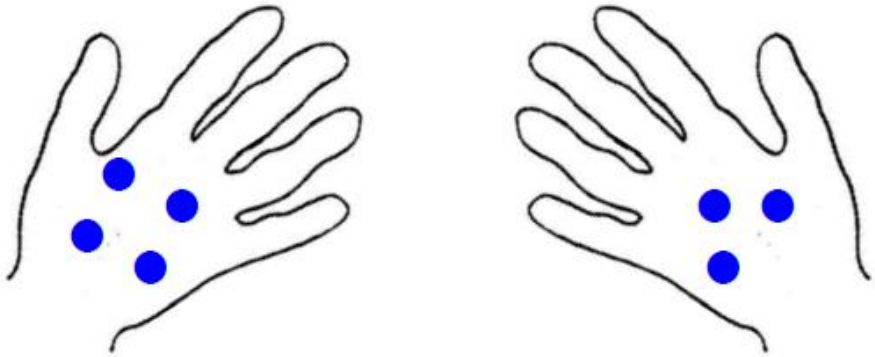


4 x 7 = 7 x 4

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

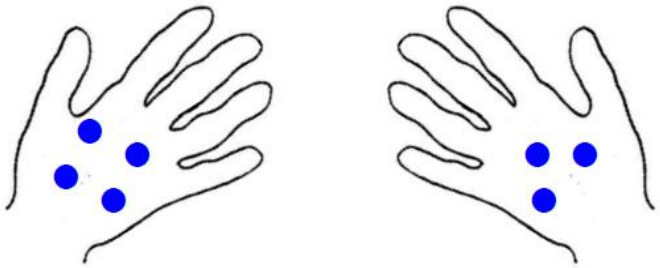
compare

compare



4 is more than 3

compare

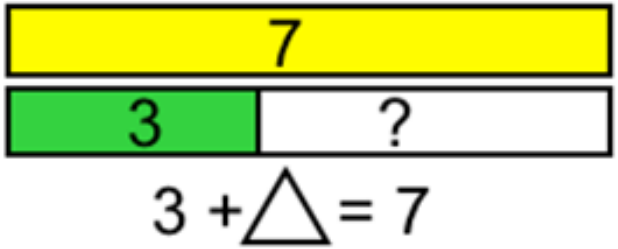


4 is more than 3

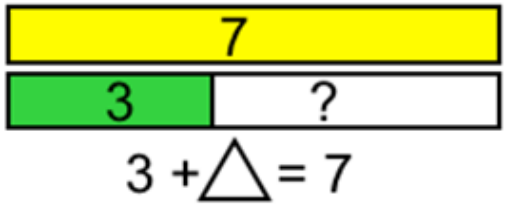
To decide if one number
is greater than, less than, or equal to.

comparison bars

comparison bars



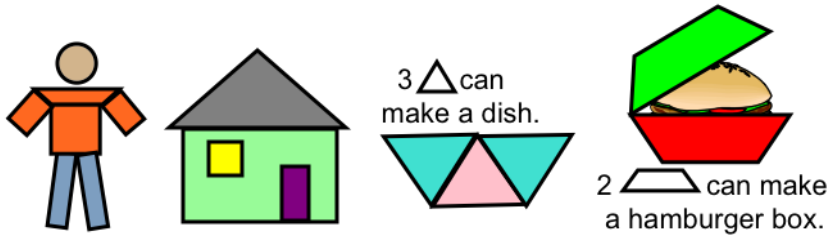
comparison bars



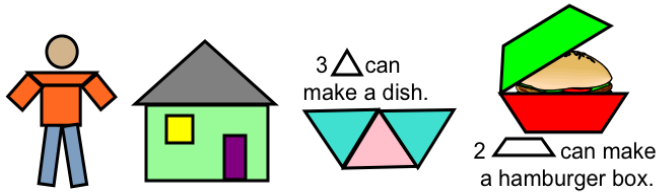
Used to represent larger and smaller amounts in a comparison situation. Can be used to represent all four operations. Different lengths of bars are drawn to represent each number.

compose

compose



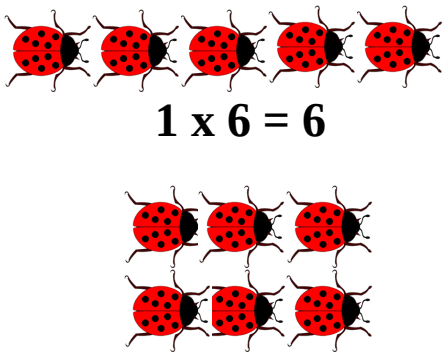
compose



To put together components or basic elements.

composite number

composite number

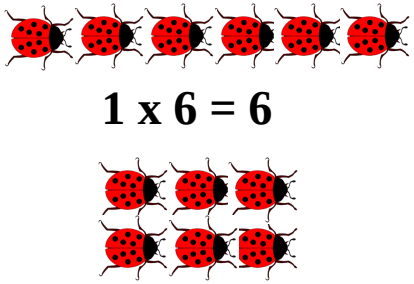


1 x 6 = 6

2 x 3 = 6

6 is a composite number

composite number



1 x 6 = 6

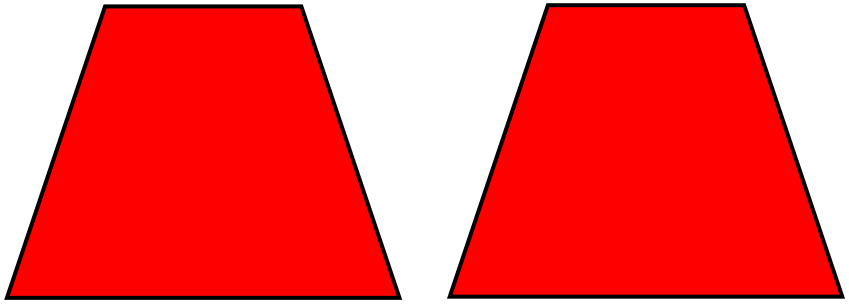
2 x 3 = 6

6 is a composite number

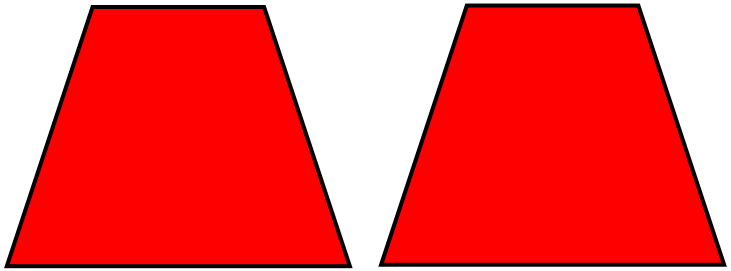
A number greater than 0 that has more than two different factors.

congruent

congruent



congruent



Having exactly the same size and shape.

cup (c)

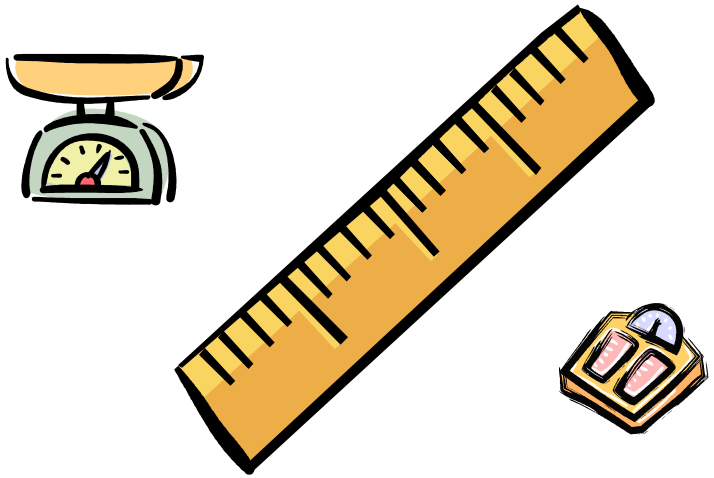
cup (c)

cup (c)

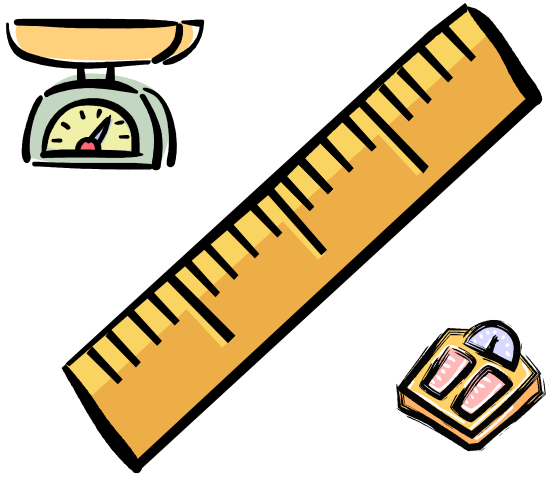
A customary unit of capacity.
1 cup = 8 fluid ounces.

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	XXXXXXXXX
truck	XXXXX
bus	XX

car	truck	bus
𝍸 III	𝍸	II

data

data *collecting*

car	XXXXXXXXX
truck	XXXXX
bus	XX

car	truck	bus
𝍸 III	𝍸	II

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

decimal

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decimal

$29.45 53.0

0.02

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decimal

$29.45 53.0

0.02

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

decimal fraction

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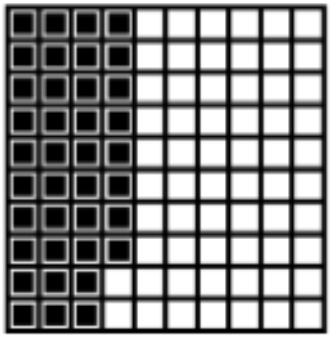
decimal fraction



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

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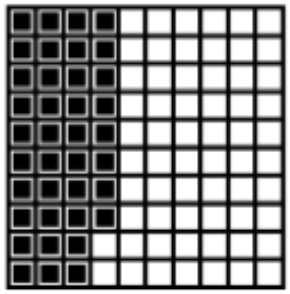
decimal fraction



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

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

decimal notation

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decimal notation

4.73

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decimal notation

4.73

A number containing a decimal point.

decimal point

decimal point

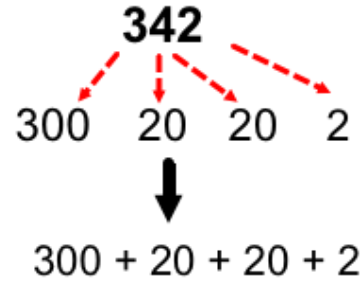
decimal point

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

decompose

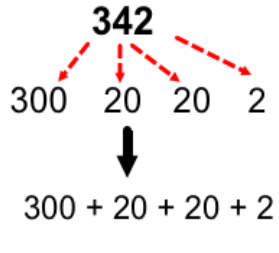
decompose

Numbers can be decomposed in a variety of ways, depending on the situation.



decompose

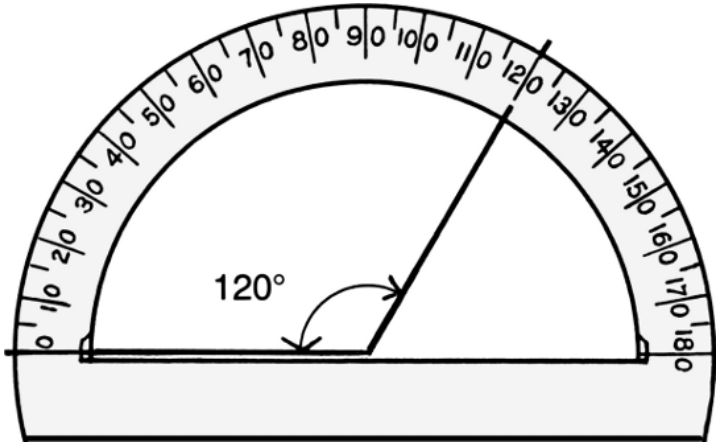
Numbers can be decomposed in a variety of ways, depending on the situation.



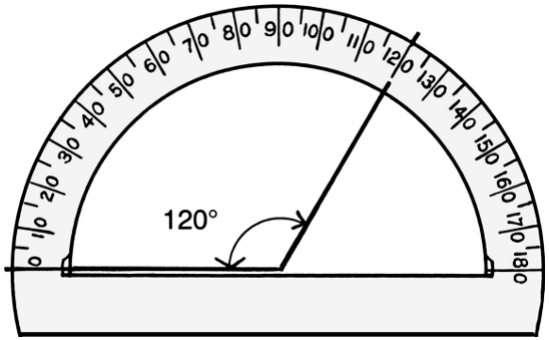
To separate into components or basic elements.

degree (angle measure)

degree (angle measure)



degree (angle measure)



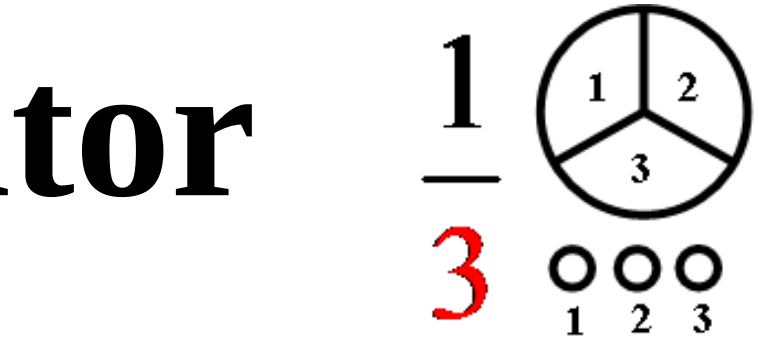
A unit for measuring angles. Based on dividing one complete circle into 360 equal parts.

denominator

---

denominator

$\frac{1}{3}$

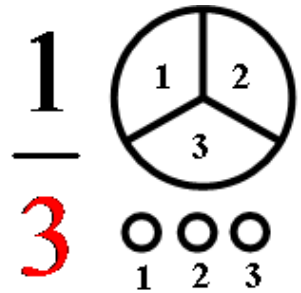


- Parts in all
- Whole
- Set
- Total

---

denominator

$\frac{1}{3}$



- Parts in all
- Whole
- Set
- Total

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

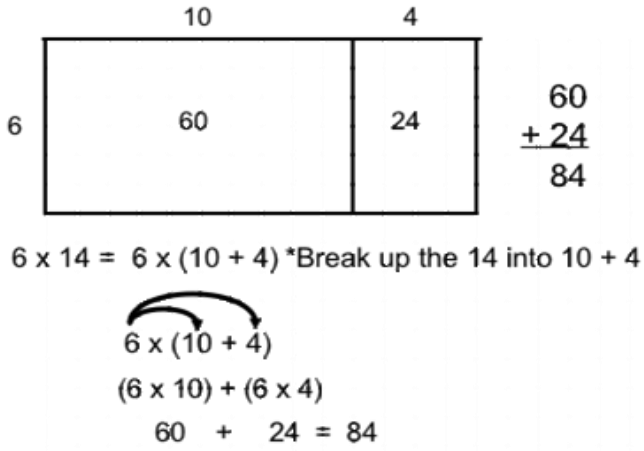
289 – 146 = 143

difference

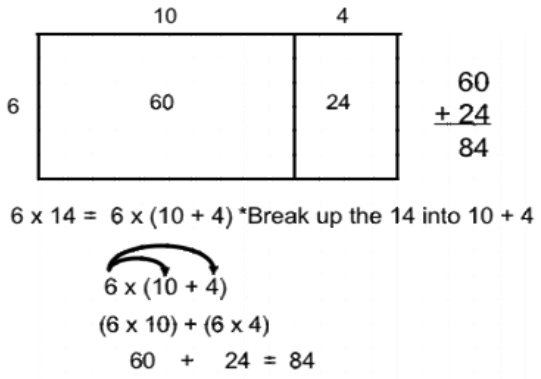
The amount that remains after one quantity is subtracted from another.

Distributive Property

Distributive Property



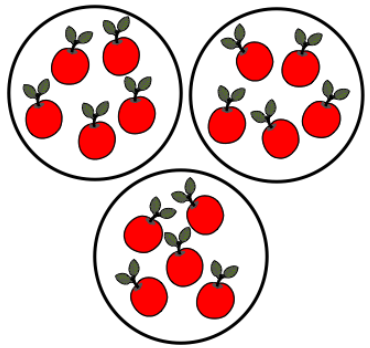
Distributive Property



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

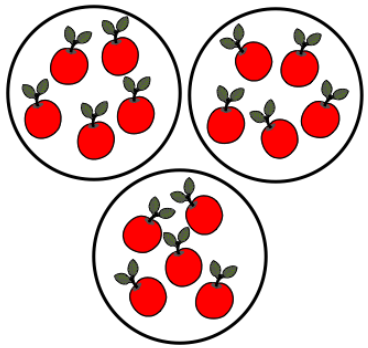
divide

divide



15 ÷ 3 = 5

divide

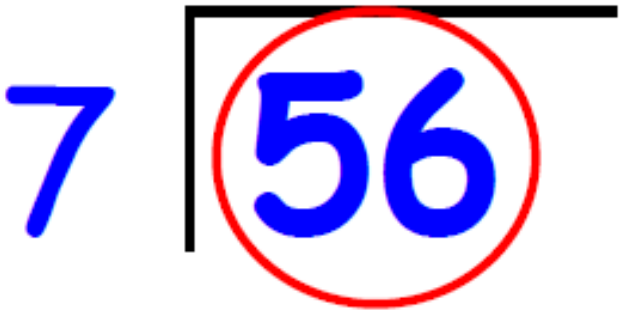


15 ÷ 3 = 5

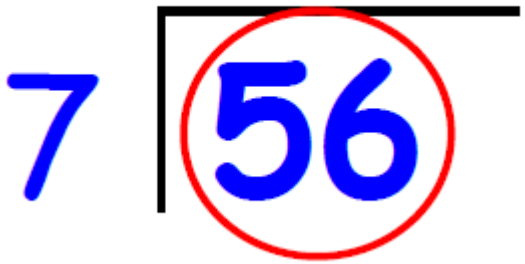
To separate into equal groups and find the number in each group or the number of groups.

dividend

dividend



dividend



A number that is divided by another number.

divisor

divisor

divisor

The number by which another number is divided.

endpoint

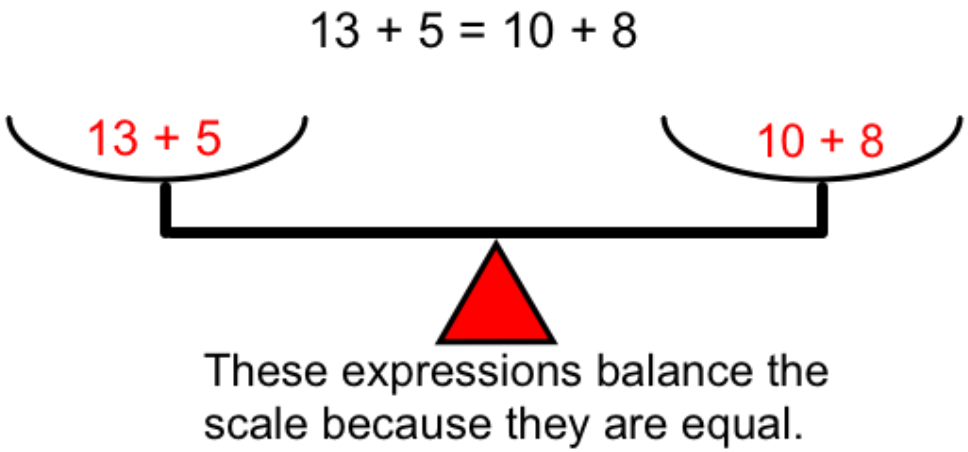
endpoint

endpoint

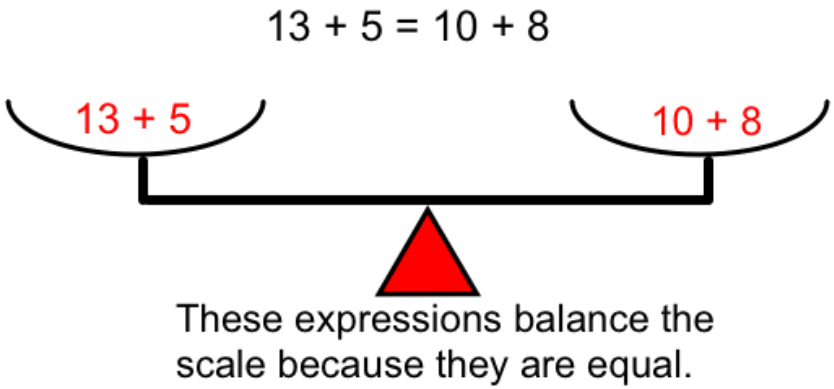
A point at either end of a line segment, or a point at one end of a ray.

equal

equal



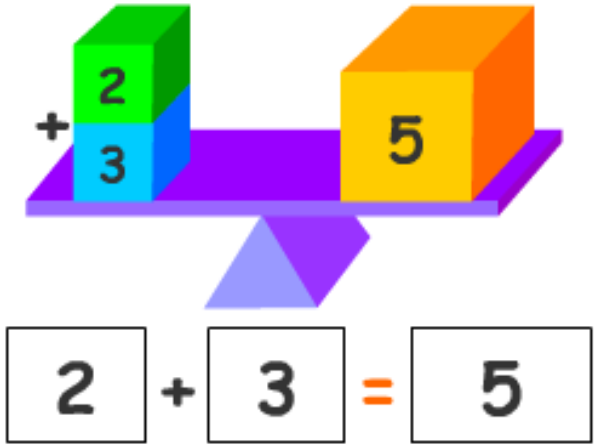
equal



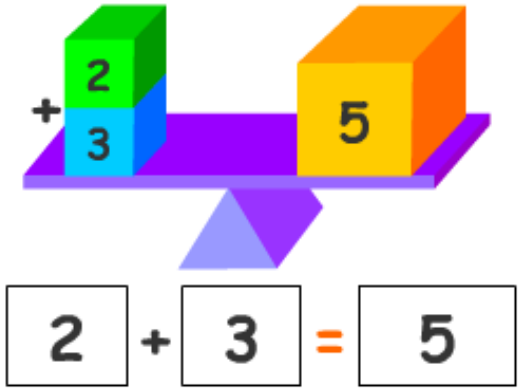
Having the same value.

equation

equation



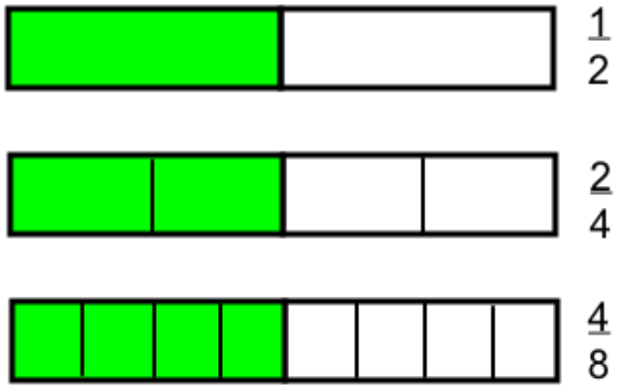
equation



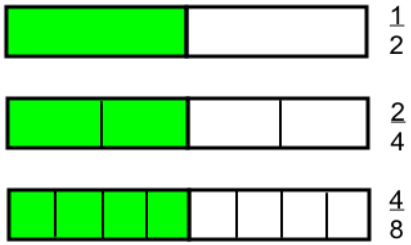
A mathematical sentence with an equals sign. The amount on one side of the equals sign has the same value as the amount on the other side.

equivalent fractions

equivalent fractions



equivalent fractions



Fractions that have the same value.

estimate

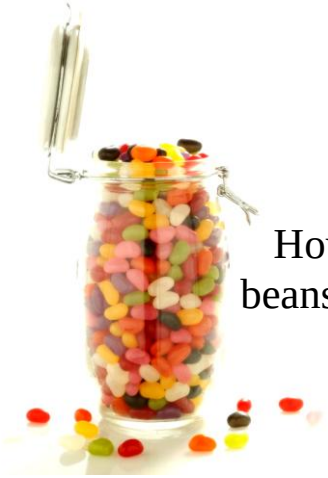
---

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 x 5 = 15	**15 ÷ 5 = 3**
5 x 3 = 15	**15 ÷ 3 = 5**

---

fact family

Fact Family for 3, 5, 15

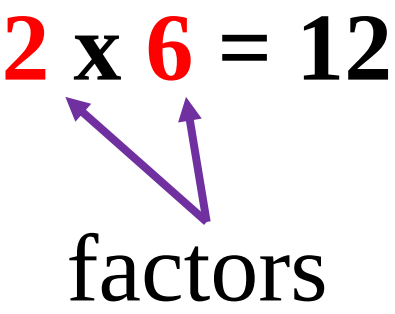
3 x 5 = 15	**15 ÷ 5 = 3**
5 x 3 = 15	**15 ÷ 3 = 5**

A group of related facts that use the same numbers. Also called *related facts.*

factor

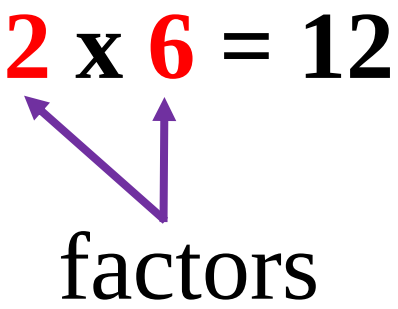
---

factor



---

factor

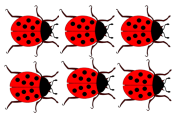


The whole numbers that are multiplied to get a product.

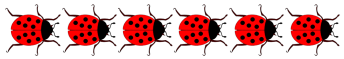
factor pairs

factor pairs

2 x 3 = 6



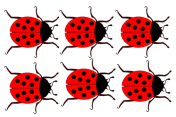
1 x 6 = 6



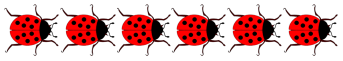
The factor pairs for 6 are (2,3) and (1,6)

factor pairs

2 x 3 = 6



1 x 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,**

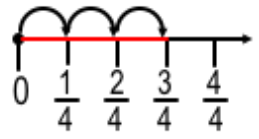
$$A = l \times w$$

A rule that is written as an equation.

fraction

fraction

Measurement Model



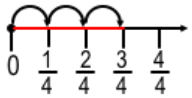
Bar Diagram
(thickened number line)

Set Model

Regional/Array Model

fraction

Measurement Model



Bar Diagram
(thickened number line)

Set Model

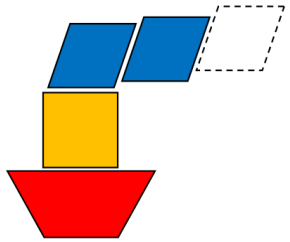
Regional/Array Model

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	



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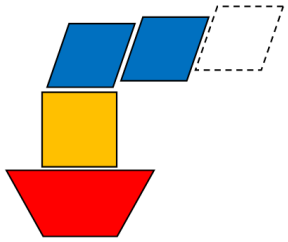


A table that lists pairs of numbers that follow a rule.

gallon (gal)

gallon (gal)

gallon (gal)

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

gram (g)

gram (g)

The mass of a paperclip is about 1 gram.

gram (g)

The mass of a paperclip is about 1 gram.

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

greater than

greater than

5 > 3

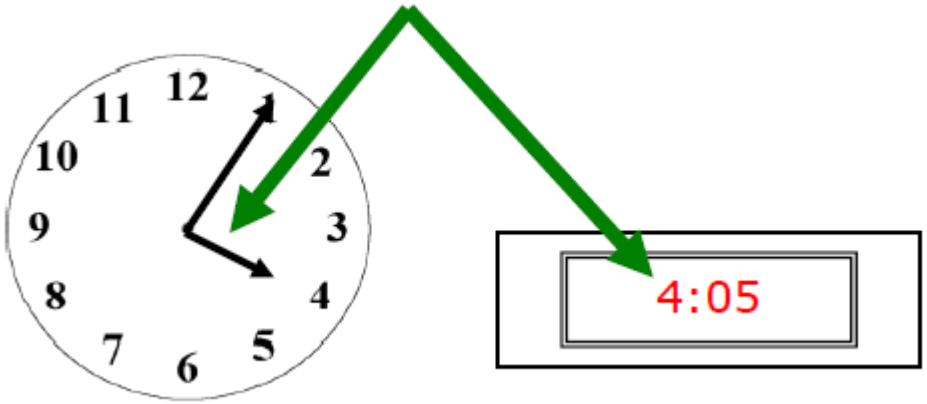
greater than

5 > 3

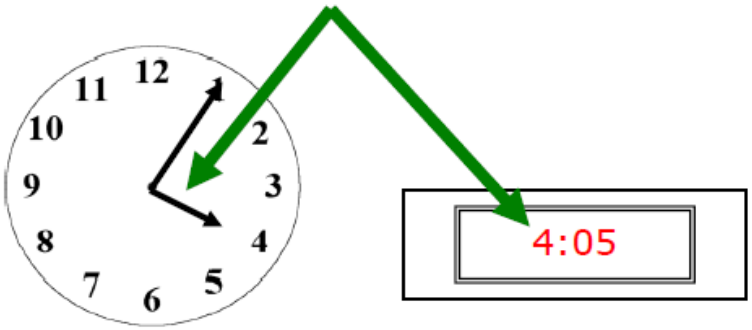
Greater than is used to compare two numbers when the first number is larger than the second number.

hour (hr)

hour (hr)



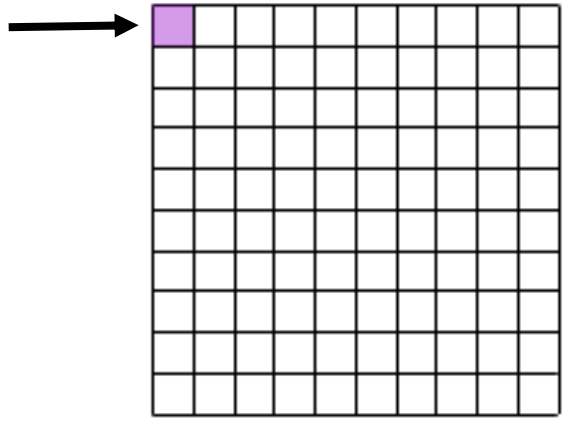
hour (hr)



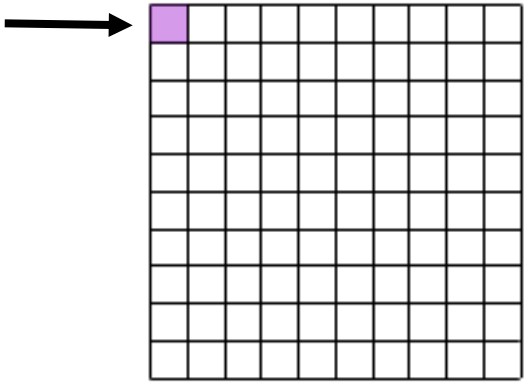
A unit of time.
1 hour = 60 minutes.
24 hours = 1 day.

hundredth

hundredth



hundredth



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

hundredths

hundredths

hundredths

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 group of 3 = 3
1 x 3 = 3

Identity Property of Multiplication

1 group of 3 = 3
1 x 3 = 3

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

improper fraction

---

improper fraction

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

---

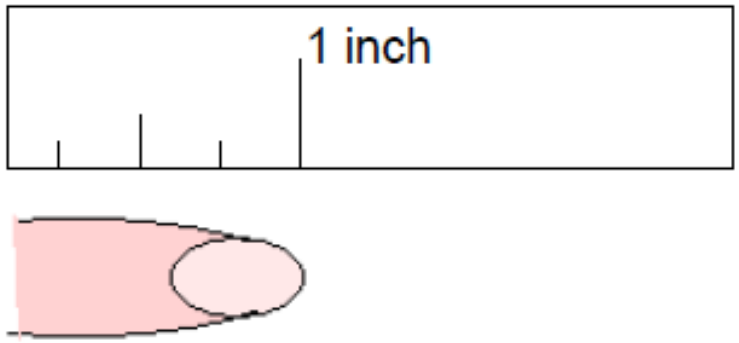
improper fraction

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

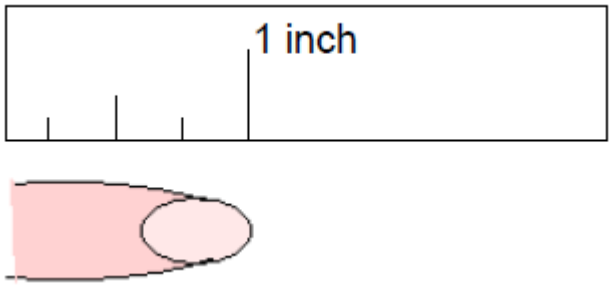
A term for a fraction whose numerator is greater than or equal to its denominator.

inch (in)

inch (in)



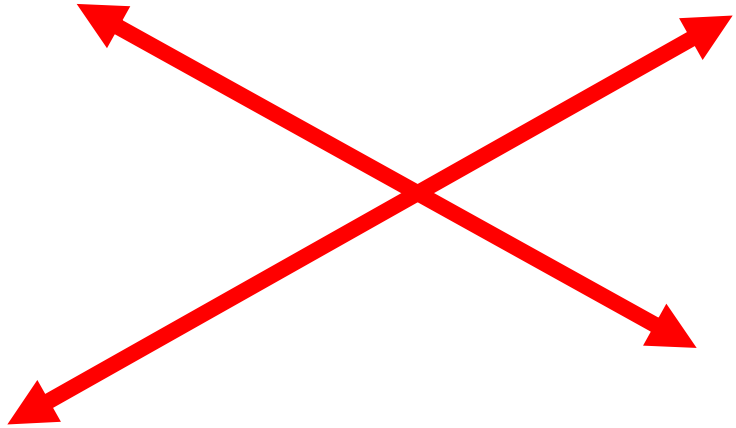
inch (in)



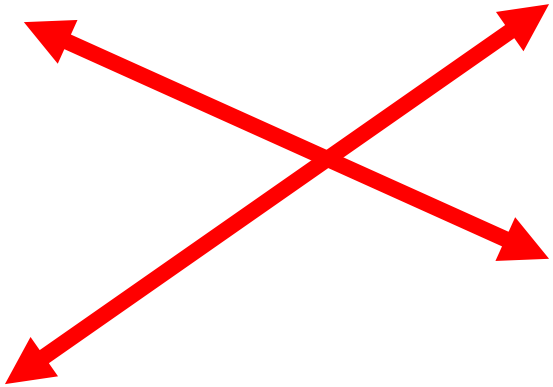
A customary unit of length.
12 inches = 1 foot.

intersecting lines

intersecting lines



intersecting lines



Lines that cross at a point.

inverse operations

---

inverse operations

Multiplication and division are inverse operations.

8 x 5 = 40
40 ÷ 5 = 8

---

inverse operations

Multiplication and division are inverse operations.

8 x 5 = 40
40 ÷ 5 = 8

Operations that undo each other.

kilogram (kg)

kilogram (kg)

Math book

About 2 ½ pounds

kilogram (kg)

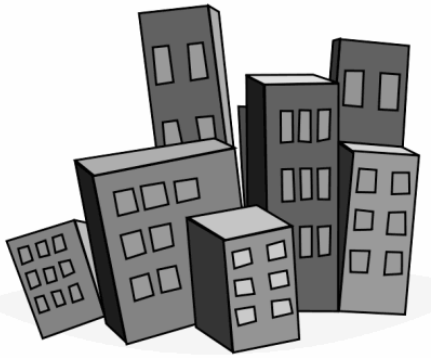
Math book

About 2 ½ pounds

A metric unit of mass equal to 1000 grams.

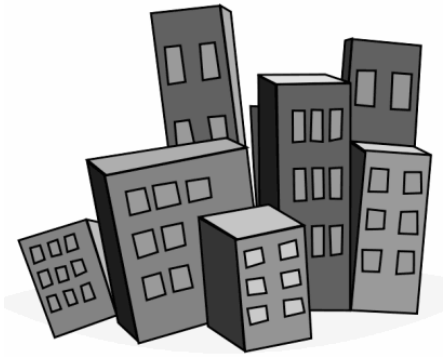
kilometer (km)

kilometer (km)



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

kilometer (km)

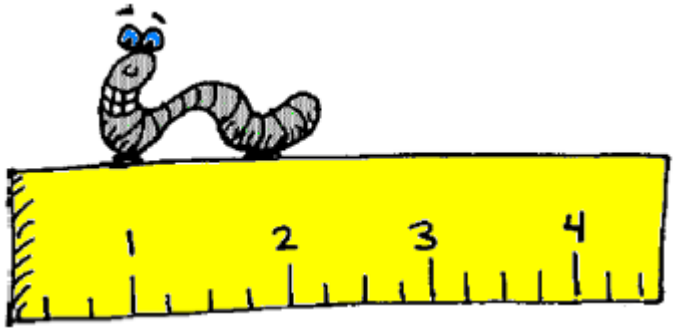


A kilometer (km) is about the length of 4 city blocks.

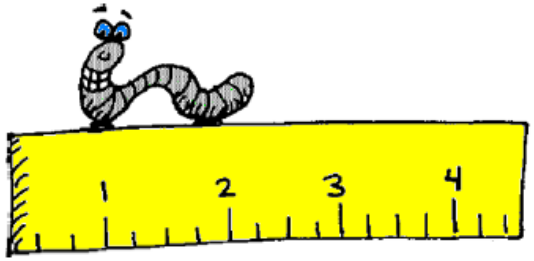
A metric unit of length equal to 1000 meters.

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

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

like denominators

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

Denominators in two or more fractions that are the same.

line

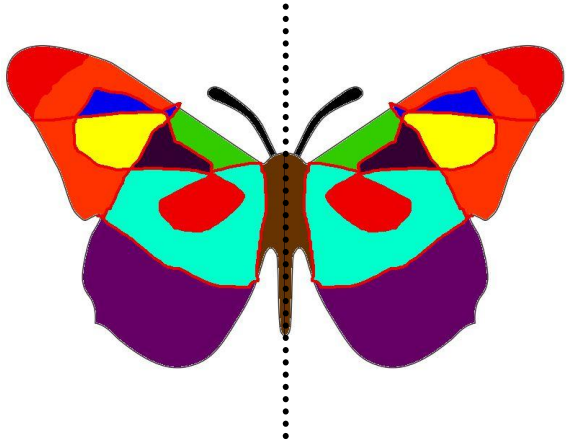
line

line

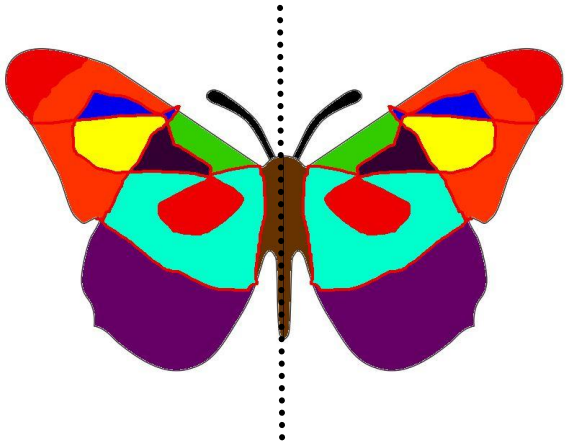
A set of connected points continuing without end in both directions.

line of symmetry

line of symmetry



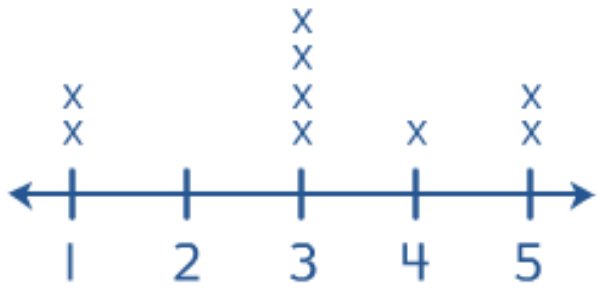
line of symmetry



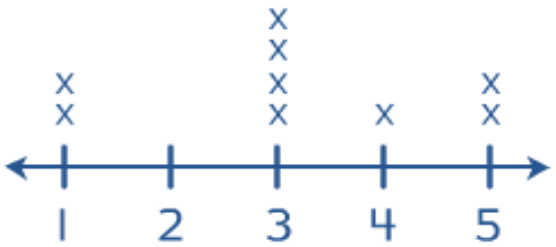
A line that divides a figure into two congruent halves that are mirror images of each other.

line plot

line plot



line plot



A diagram showing frequency of data on a number line.

line segment

---

line segment

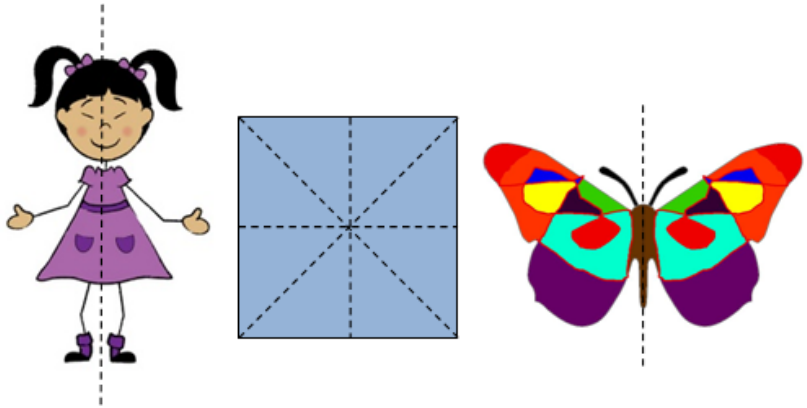
---

line segment

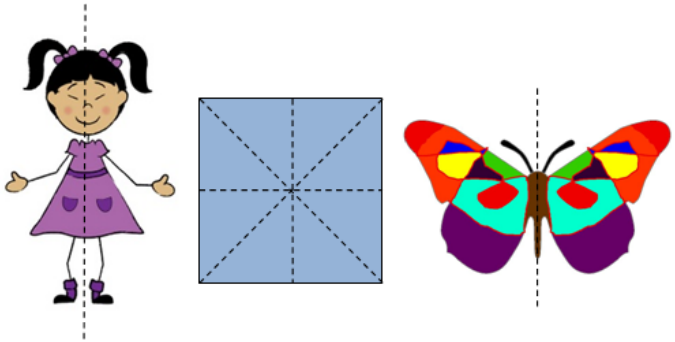
A part of a line with two endpoints.

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

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large bottle of soda or bottle of water

1,000 mL = 1 L

The basic unit of capacity in the metric system.
1 liter = 1,000 milliliters.

lowest terms

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

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