English 4th Grade M-Z
Vocabulary Cards and Word Walls

Revised: 1/13/14

Please scroll down to the next page to begin viewing visual representations and definitions for vocabulary used in third grade math classrooms.

Retrieved from https://www.graniteschools.org/mathvocabulary/vocabulary-cards/ (November 15, 2017)

Bibliography of Definition Sources:

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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)

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meter (m)



A baseball bat is *about* 1 meter long.

---

meter (m)

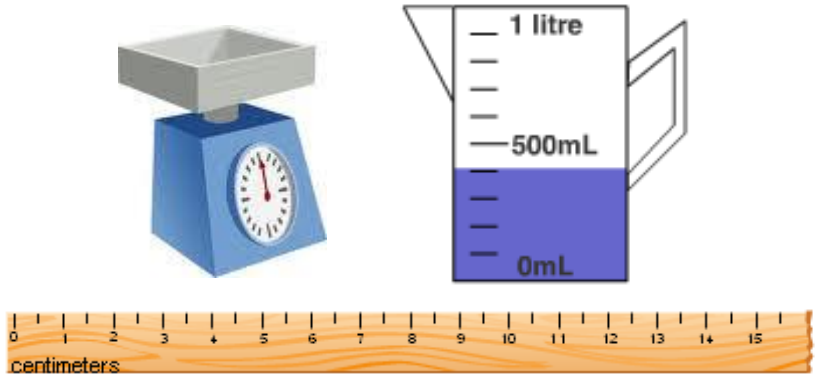


A standard unit of length in the metric system.

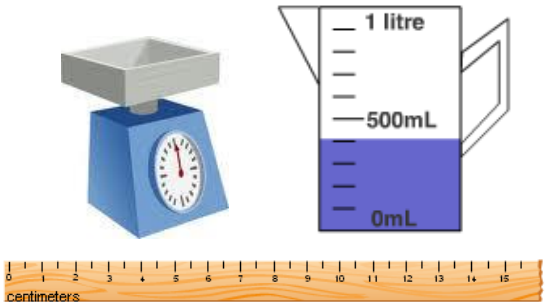
A baseball bat is *about* 1 meter long.

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



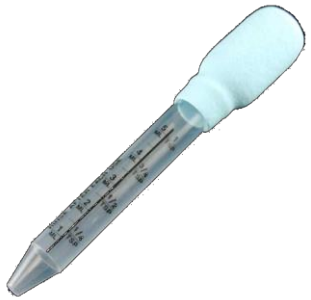
A customary unit
of length.
1 mile = 5,280 feet

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

milliliter (mL)

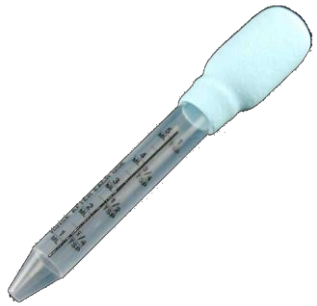
milliliter (mL)

This holds about 10 drops or 1 milliliter.



milliliter (mL)

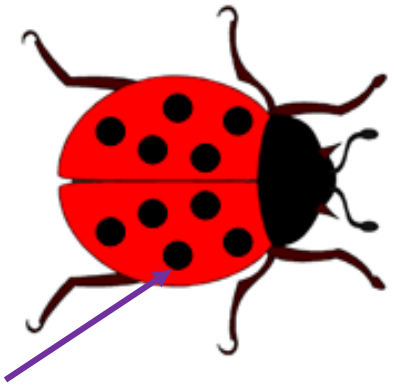
This holds about 10 drops or 1 milliliter.



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

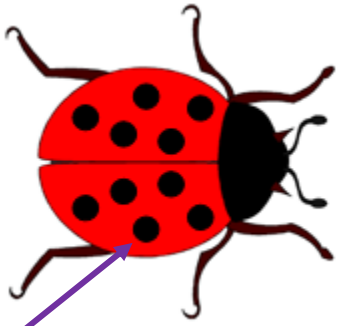
millimeter (mm)

millimeter (mm)



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

millimeter (mm)

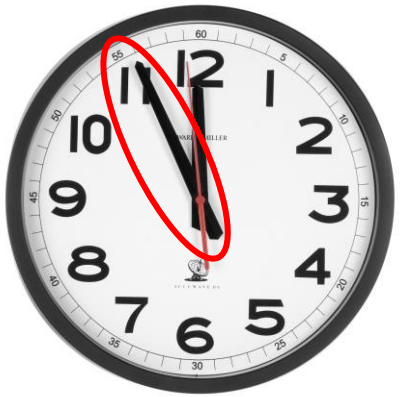


The dot on a ladybug is *about* 1 millimeter wide.

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

minute (min)

minute (min)



minute (min)



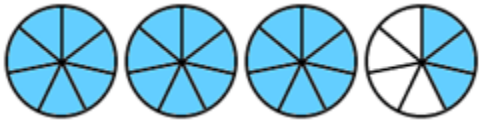
A unit used to measure a short amount of time; there are 60 minutes in one hour.

mixed number

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mixed number

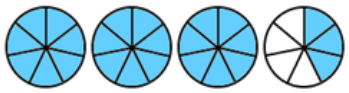
$3\frac{3}{7}$



---

mixed number

$3\frac{3}{7}$



A number that has a counting number and a fraction.

month

month

September						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

September is the ninth month of the year.

month

September						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

September is the ninth month of the year.

A length of time equal to
28, 30, or 31 days.
12 months = 1 year

multiple

multiple

Multiples of 

3, 6, 9, 12, 15, 18, 21 …

multiple

Multiples of 

3, 6, 9, 12, 15, 18, 21 …

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

multiplicative comparison

multiplicative comparison



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

multiplicative comparison



Amy had 5 baseball cards. Jeff had 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 than another. e.g., 3 times as many as

Multiplicative Identity Property of 1

Multiplicative Identity Property of 1



1 group of 3 = 3
1 × 3 = 3

Multiplicative Identity Property of 1

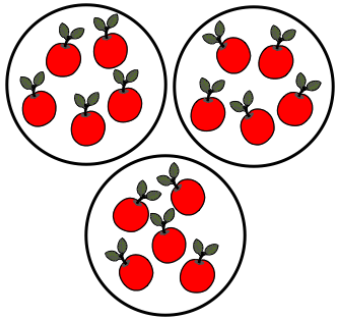


1 group of 3 = 3
1 × 3 = 3

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

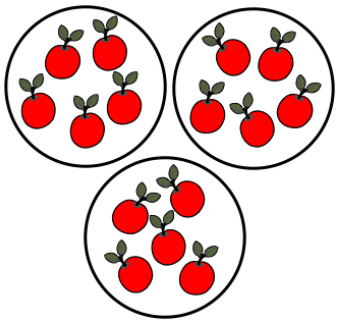
multiply

multiply



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

multiply



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

The operation of repeated addition of the same number.

number line

number line



number line



A diagram that represents numbers as points on a line.

number name

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number name

The number name of 12,345 is twelve thousand, three hundred forty-five.

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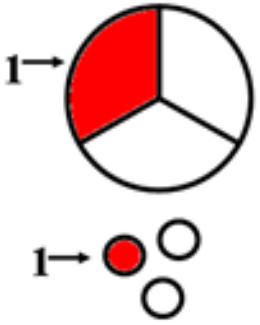
number name

The number name of 12,345 is twelve thousand, three hundred forty-five.

A way of using words to write a number.
(also known as word form)

numerator

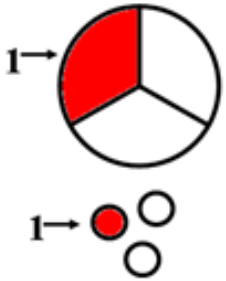
numerator



$\frac{1}{3}$

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

numerator



$\frac{1}{3}$

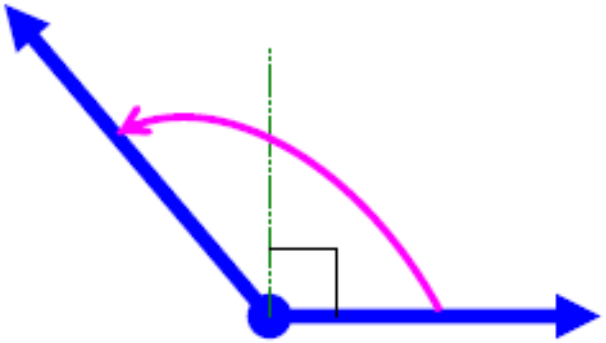
- Equal parts described in fraction
- Equal parts in the whole

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

obtuse angle

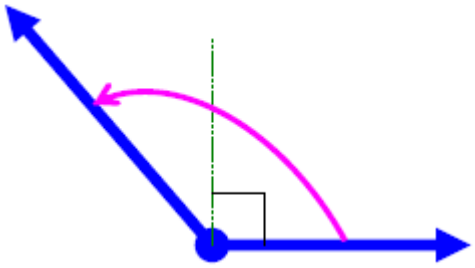
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obtuse angle



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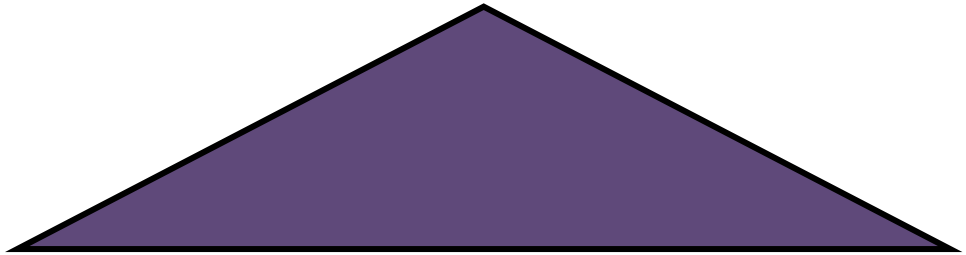
obtuse angle



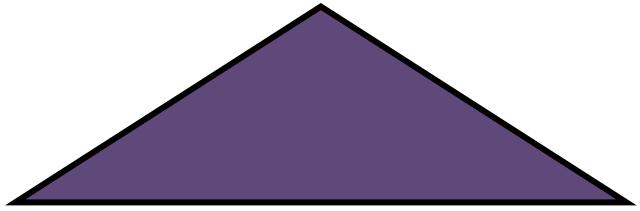
An angle with a measure
greater than 90º
but less than 180º.

obtuse triangle

obtuse triangle



obtuse triangle

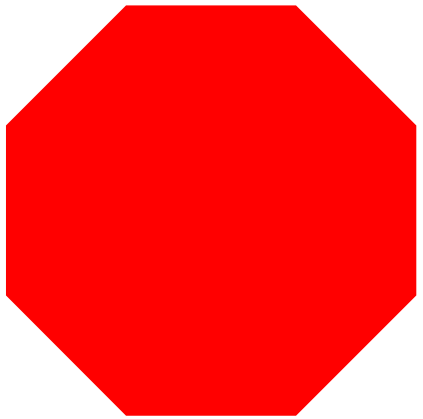


A triangle that contains
1 angle with a measure greater
than 90º (obtuse angle)
and 2 acute angles.

octagon

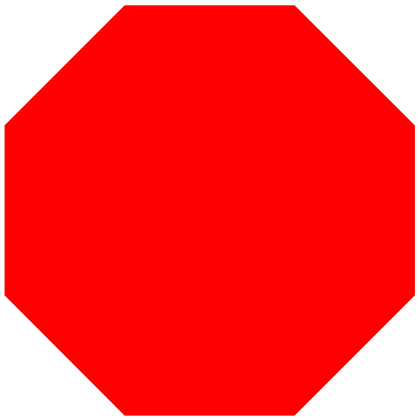
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octagon



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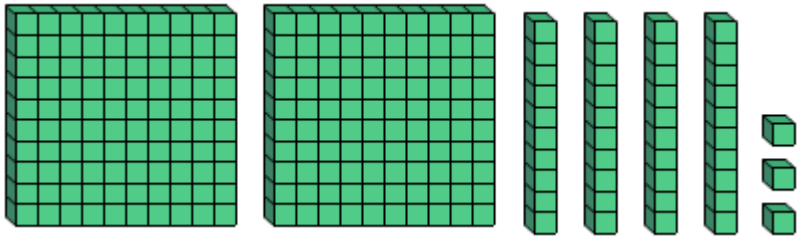
octagon



A polygon with
8 sides.

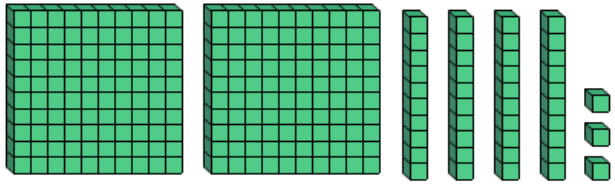
ones

ones



Hundreds	Tens	Ones
2	4	3

ones



Hundreds	Tens	Ones
2	4	3

The value of a digit that is farthest to the right when describing whole number place value.

order

---

order

$\frac{2}{8}$ $\frac{2}{6}$ $\frac{2}{4}$

In order from least to greatest.

---

order

$\frac{2}{8}$ $\frac{2}{6}$ $\frac{2}{4}$

A sequence or arrangement of things. To order fractions, compare two fractions at a time.

In order from least to greatest.

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

A strawberry weighs *about* 1 ounce.

p.m.

p.m.



12:00 P.M.
noon

3:30 P.M.
half past 3

7:45 P.M.
a quarter to 8

12:00 A.M.
midnight

p.m.



12:00 P.M.
noon

3:30 P.M.
half past 3

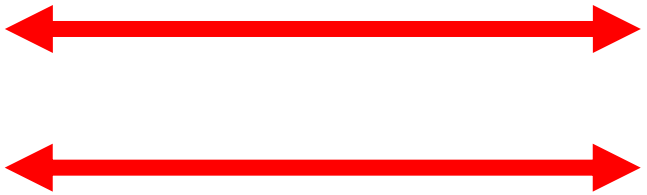
7:45 P.M.
a quarter to 8

12:00 A.M.
midnight

The time between 12:00 noon and 12:00 midnight.

parallel lines

parallel lines



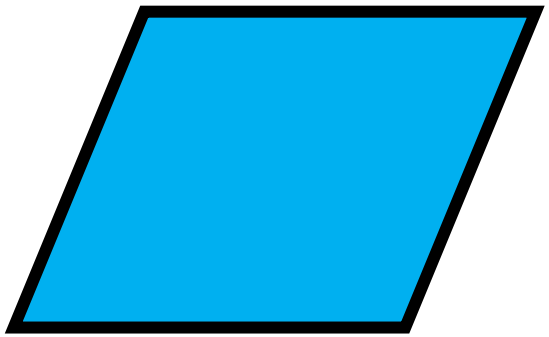
parallel lines



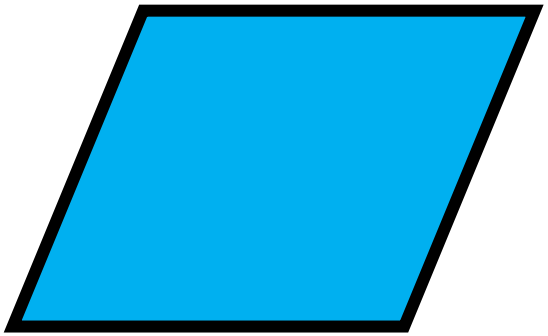
Lines that are always the same distance apart. They do not intersect.

parallelogram

parallelogram



parallelogram



A quadrilateral with 2 pairs of parallel and congruent sides.

parentheses

parentheses

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

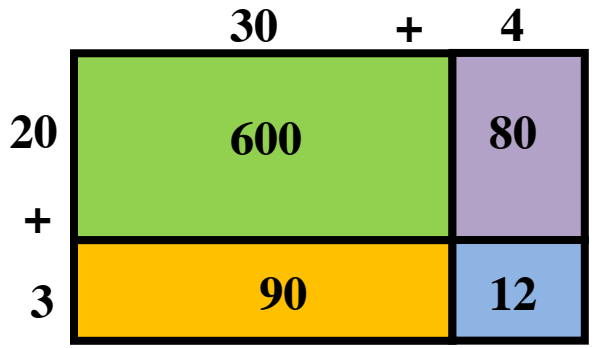
parentheses

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

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

partial product

partial product

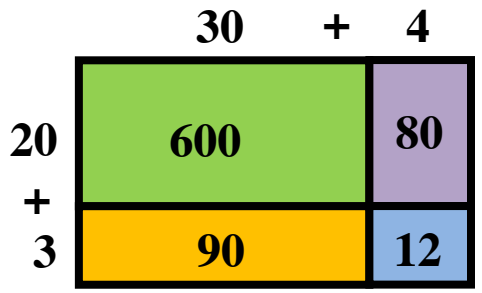


23 × 34 = 782

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

partial products

partial product



23 × 34 = 782

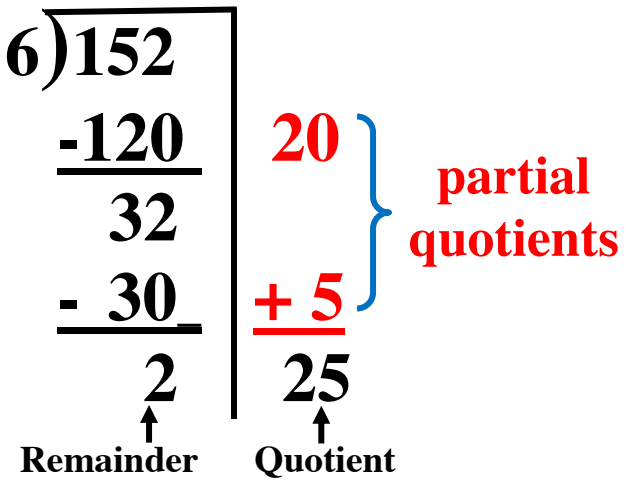
$$\begin{array}{r} 34 \\ \times\ 23 \\ \hline 600 \\ 80 \\ 90 \\ +\ 12 \\ \hline 782 \end{array}$$

partial products

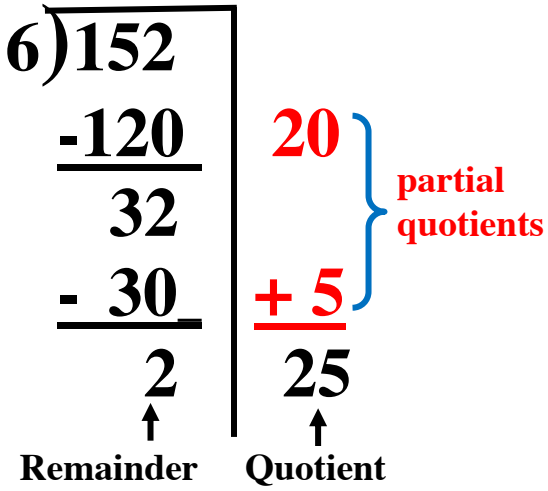
A method of multiplying in which the value of each digit in a factor is multiplied separately, and then the partial products are added together.

partial quotient

partial quotient



partial quotient



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

partitive division

(sharing division)

---

partitive division

(sharing division)



Justin has 12 balloons. He wants to share them evenly among 3 friends. How many balloons should he give each friend? 12 ÷ 3 = 4

---

partitive division

(sharing division)



Justin has 12 balloons. He wants to share them evenly among 3 friends. How many balloons should he give each friend? 12 ÷ 3 = 4

A division problem where the number of objects in each group is unknown. *How many in each group?*

pattern

---

pattern

$1 \underset{+4}{_} \quad 5 \underset{+4}{_} \quad 9 \underset{+4}{_} \quad 13$

The pattern is all odd numbers.
It follows the rule "add 4."

---

pattern

$1 \underset{+4}{_} \quad 5 \underset{+4}{_} \quad 9 \underset{+4}{_} \quad 13$

The pattern is all odd numbers.
It follows the rule "add 4."

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

pattern

---

pattern



---

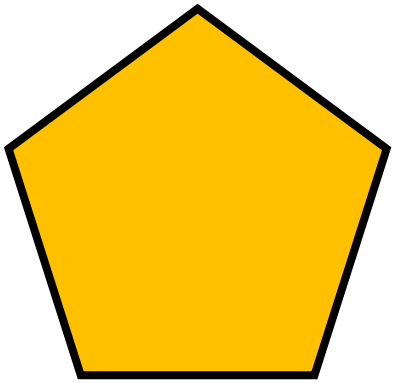
pattern



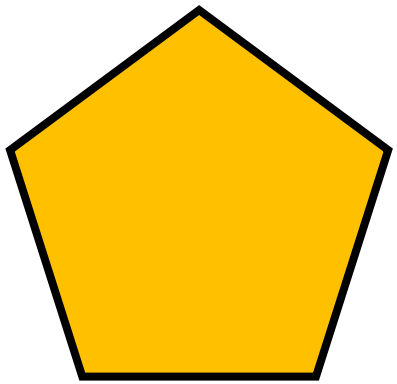
A repeating or growing sequence or design. An ordered set of numbers or shapes arranged according to a rule.

pentagon

pentagon



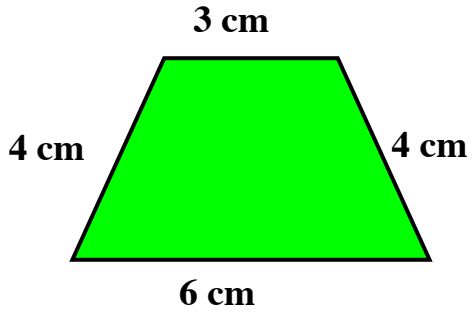
pentagon



A polygon with 5 sides.

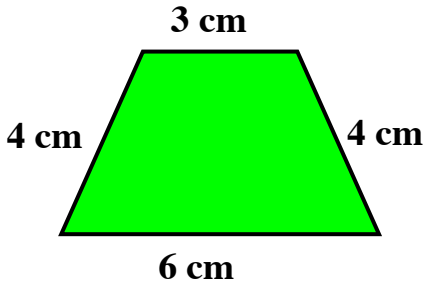
perimeter

perimeter



Perimeter = 4 cm + 6 cm + 4 cm + 3 cm
= 17 cm

perimeter

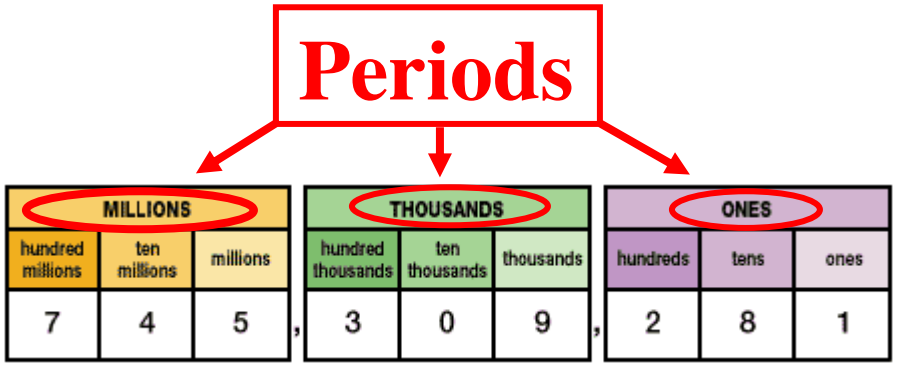


The distance around the outside of a figure.

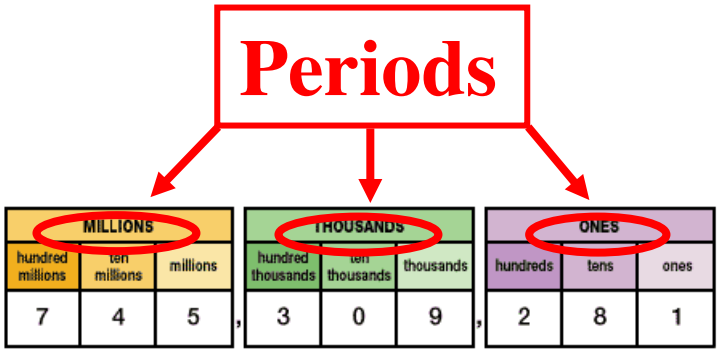
Perimeter = 4 cm + 6 cm + 4 cm + 3 cm
= 17 cm

period

period



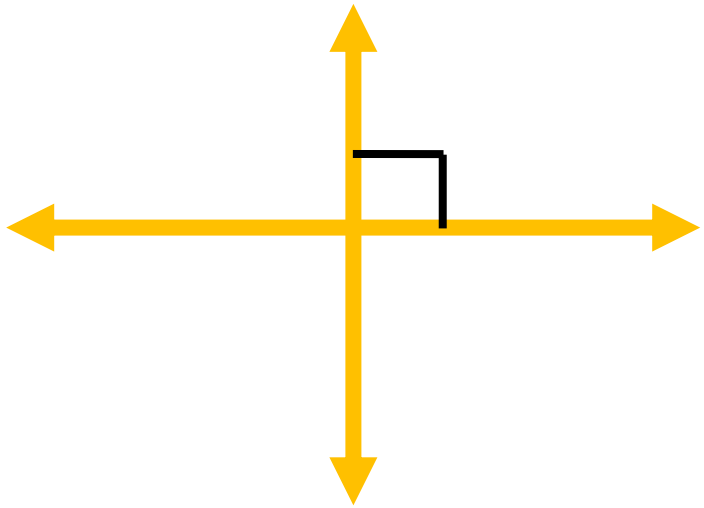
period



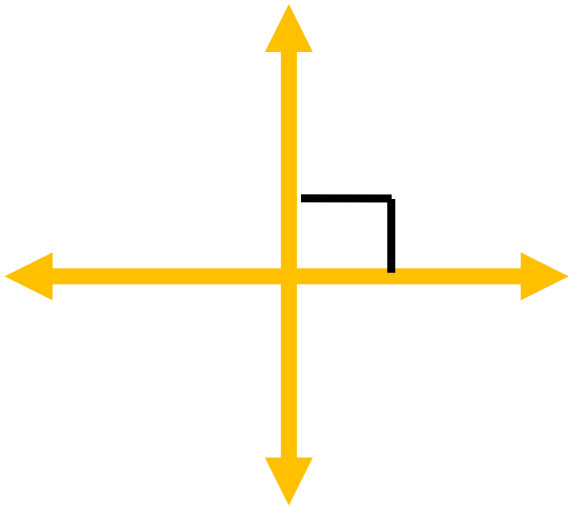
In a large number, periods are groups of 3 digits separated by commas or by spaces.

perpendicular lines

perpendicular lines



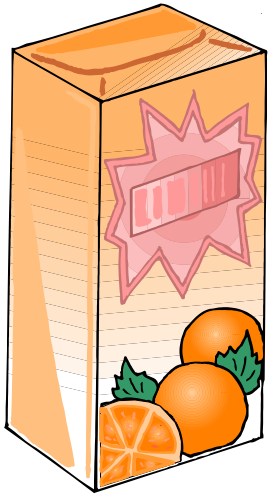
perpendicular lines



Two intersecting lines that form right angles.

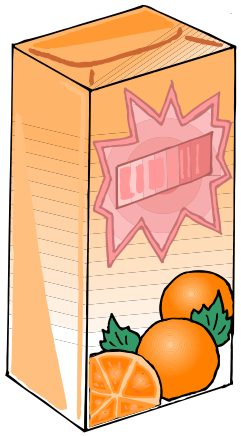
pint (pt)

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

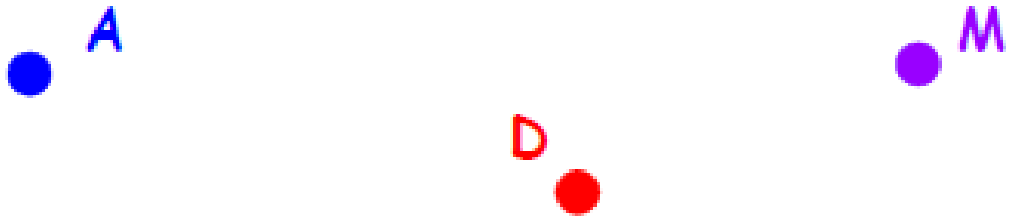
place value

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.

point

point



point

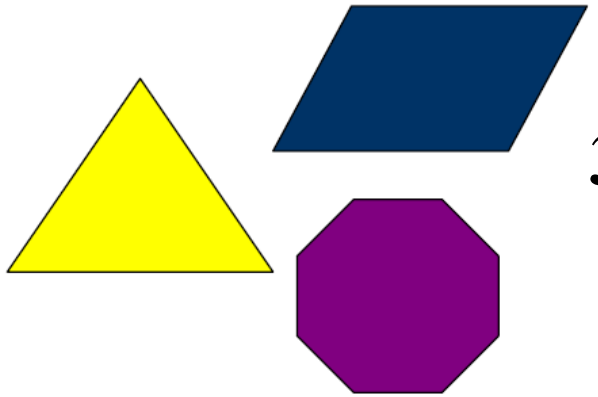


The exact location in space represented by a dot.

polygon

---

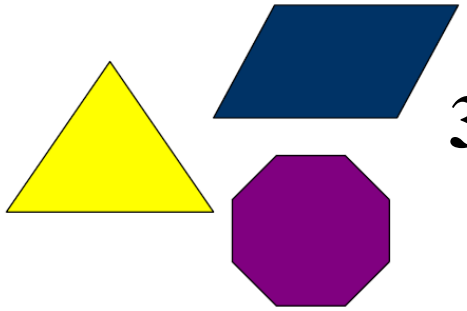
polygon



3 + sides

---

polygon



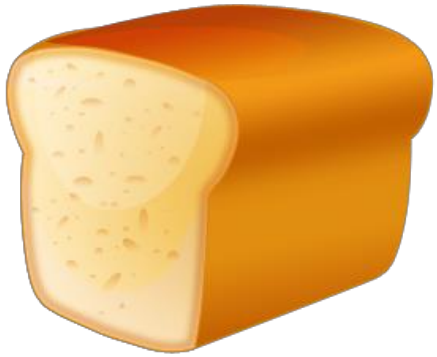
3 + sides

A closed plane figure made by line segments.

pound (lb)

---

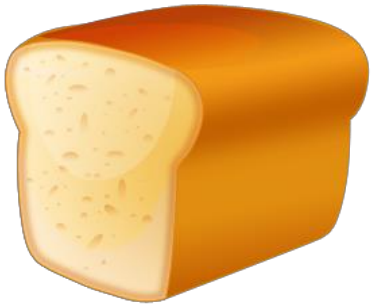
pound (lb)



A loaf of bread weighs *about* 1 pound.

---

pound (lb)

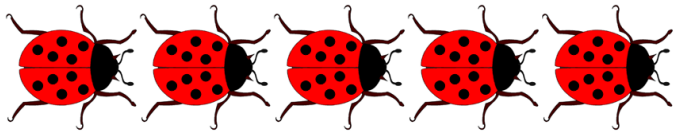


A customary unit
of weight.
1 pound = 16 ounces

A loaf of bread weighs *about* 1 pound.

prime number

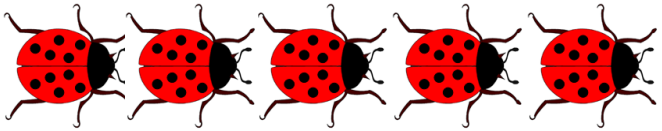
prime number



$1 \times 5 = 5$

5 is a prime number.

prime number



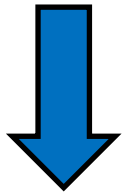
$1 \times 5 = 5$

5 is a prime number.

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

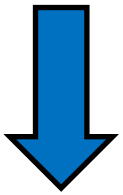
product

product



$5 \times 3 = 15$

product

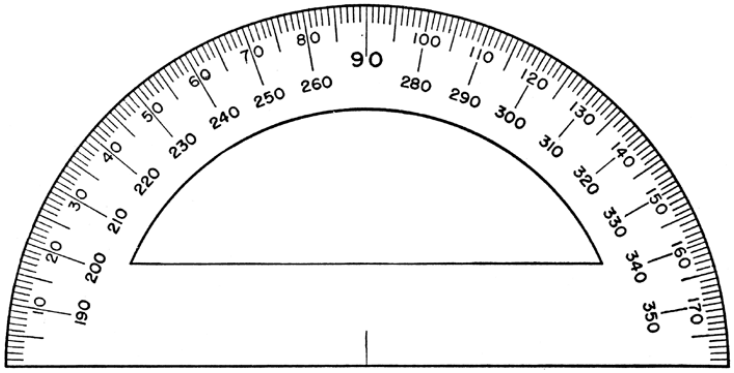


$5 \times 3 = 15$

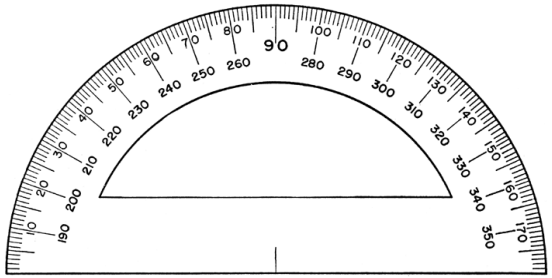
The answer to a multiplication problem.

protractor

protractor



protractor

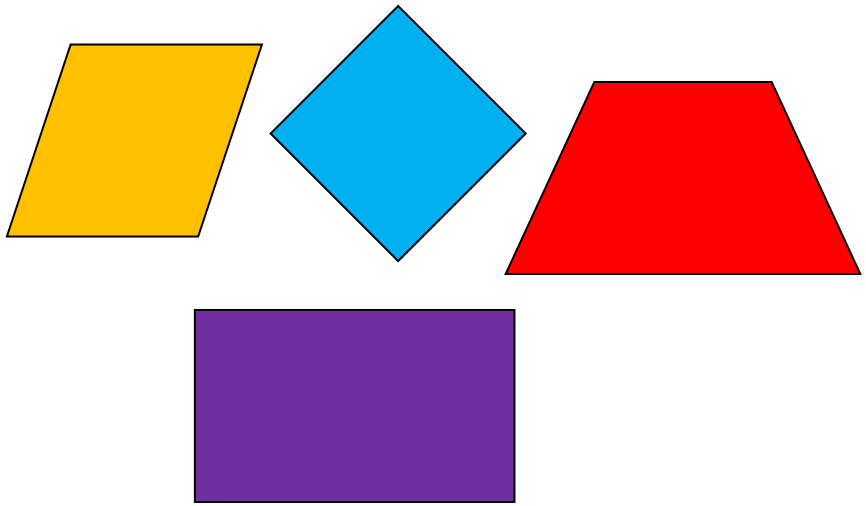


A tool used to measure and draw angles.

quadrilateral

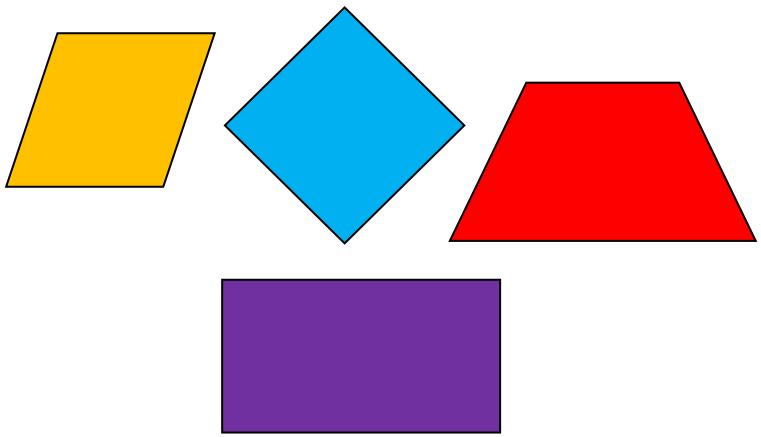
---

quadrilateral



---

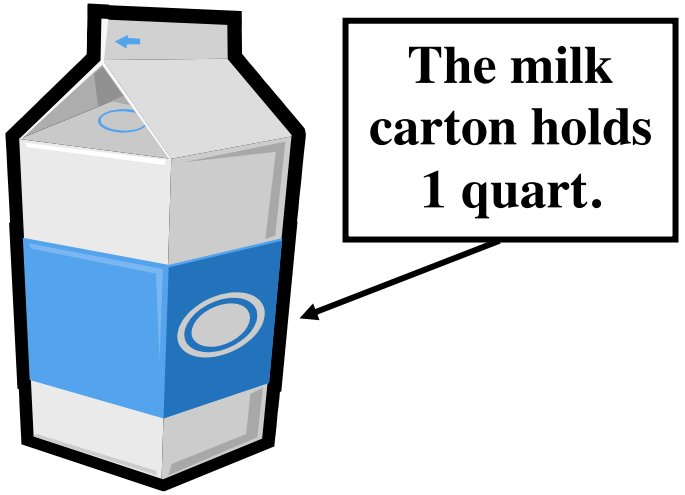
quadrilateral



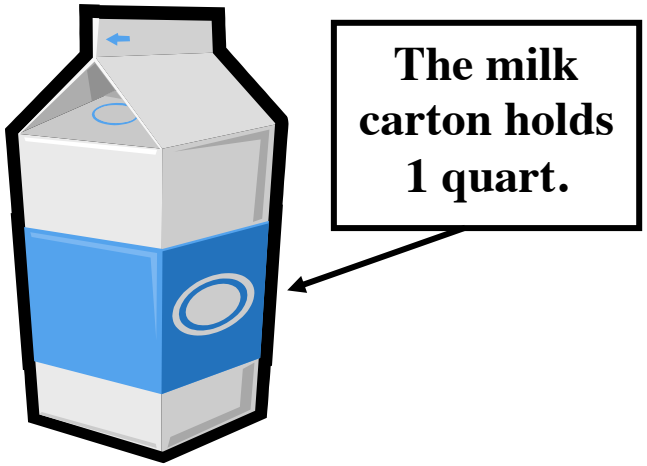
A polygon
with 4 sides.

quart (qt)

quart (qt)



quart (qt)



A customary unit of capacity.

1 quart = 2 pints
or
1 quart = 4 cups

quotative division

(measurement division)

quotative division

(measurement division)



Justin has 12 balloons. If he gives 3 balloons to each friend, how many friends will get balloons? 12 ÷ 3 = 4

quotative division

(measurement division)

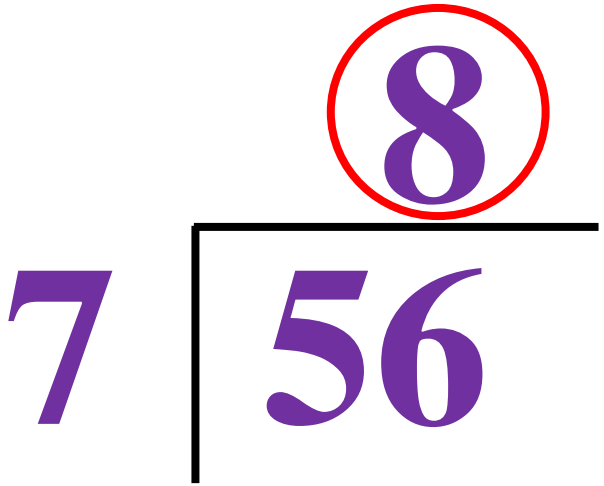


Justin has 12 balloons. If he gives 3 balloons to each friend, how many friends will get balloons? 12 ÷ 3 = 4

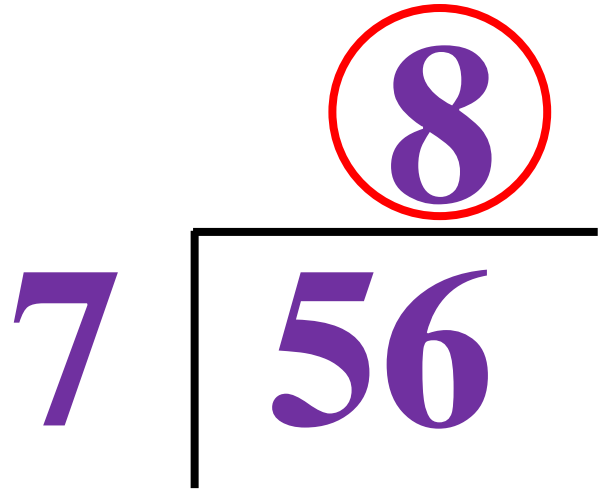
A division problem where the number of groups is unknown. *How many groups?*

quotient

quotient



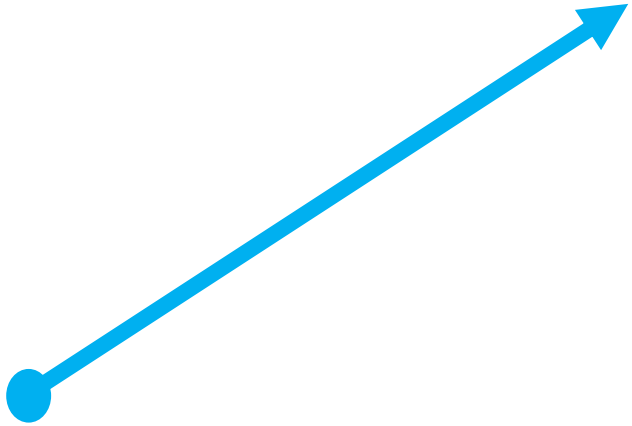
quotient



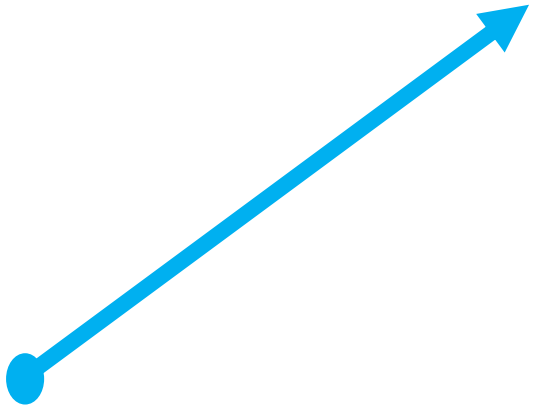
The answer to a division problem.

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 × 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

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Use estimation to eliminate unreasonable choices.

60 × 30 = 1,800

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The answer is A.

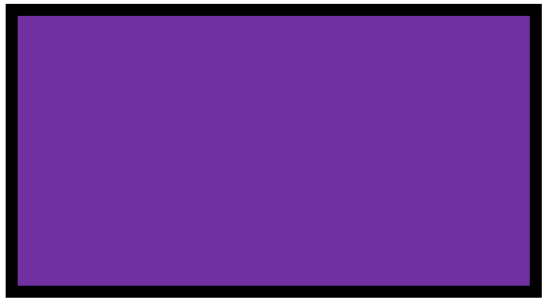
An answer that is based on good number sense.

rectangle

rectangle



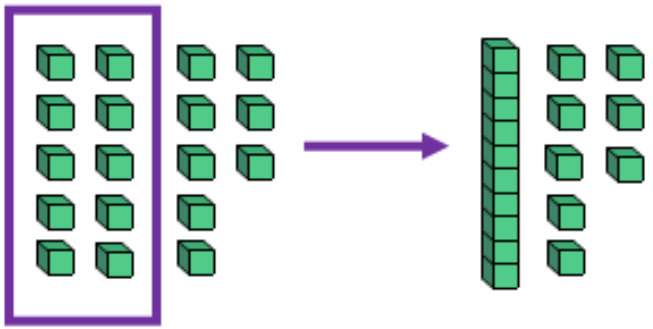
rectangle



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

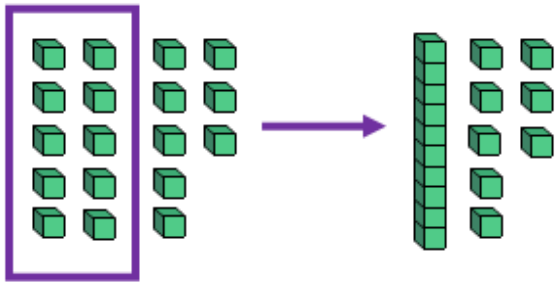
regroup

regroup



Regroup 18 ones as 1 ten and 8 ones.

regroup

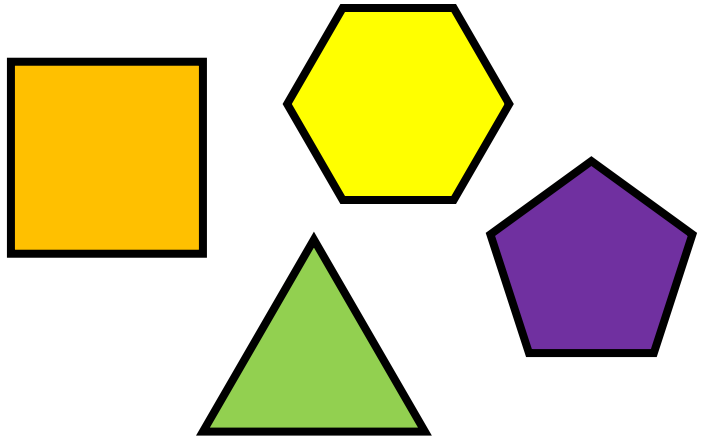


To rearrange the formation of a group.

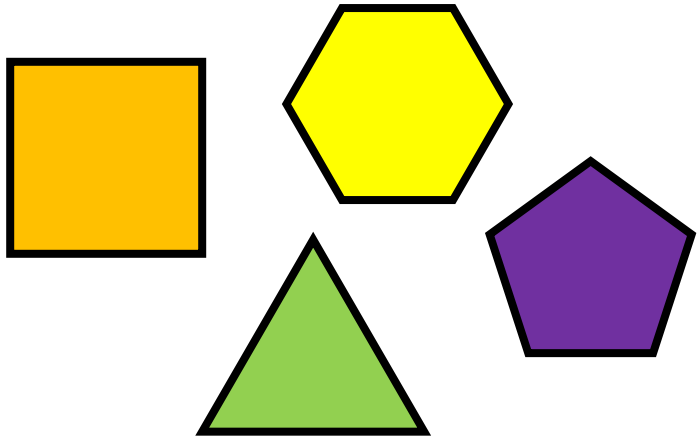
Regroup 18 ones as 1 ten and 8 ones.

regular polygon

regular polygon



regular polygon



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

related facts

related facts

Related Facts for 3, 5, 8

3 + 5 = 8	8 – 5 = 3
5 + 3 = 8	8 – 3 = 5

related facts

Related Facts for 3, 5, 8

3 + 5 = 8	8 – 5 = 3
5 + 3 = 8	8 – 3 = 5

Related addition and subtraction facts or related multiplication and division facts. (also known as fact family)

remainder

---

remainder

There are 32 students going on a field trip. Each chaperone can supervise 5 students. How many chaperones are needed?

32 ÷ 5 = 6 r2

7 chaperones are needed.

---

remainder

There are 32 students going on a field trip. Each chaperone can supervise 5 students. How many chaperones are needed?

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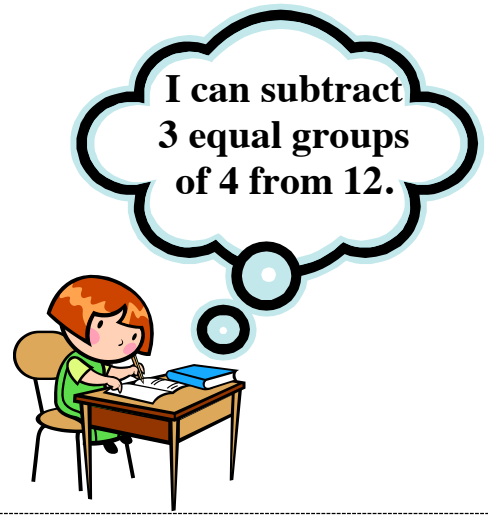
7 chaperones are needed.

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

repeated subtraction

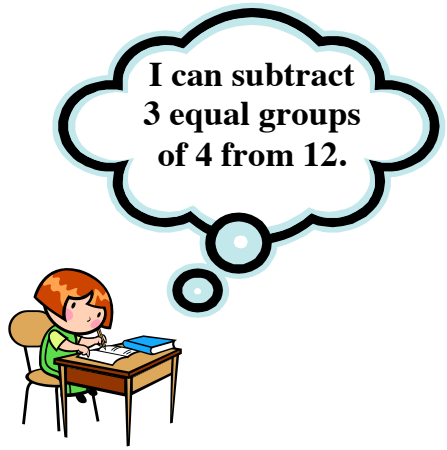
repeated subtraction

$12 - 4 = 8$
$8 - 4 = 4$
$4 - 4 = 0$



repeated subtraction

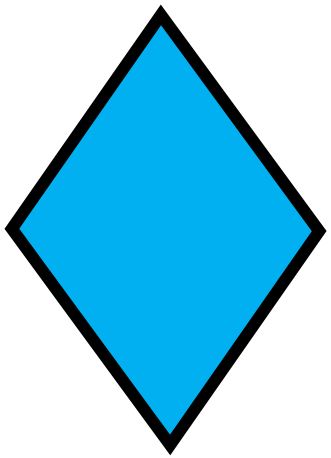
$12 - 4 = 8$
$8 - 4 = 4$
$4 - 4 = 0$



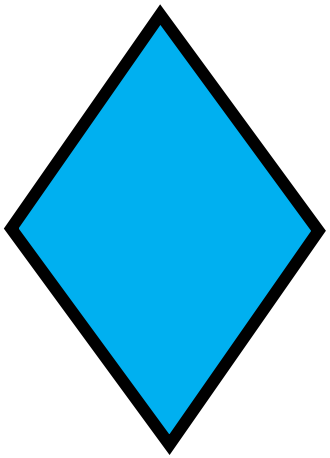
Subtracting equal groups to find the total amount of groups.

rhombus

rhombus



rhombus

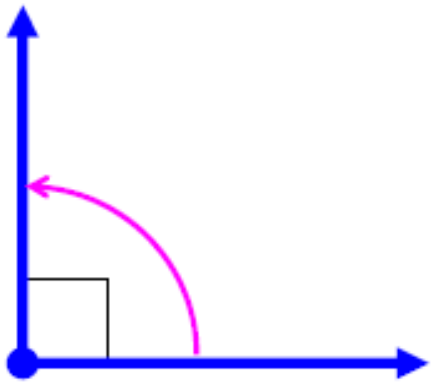


A quadrilateral with all
4 sides equal in length.

right angle

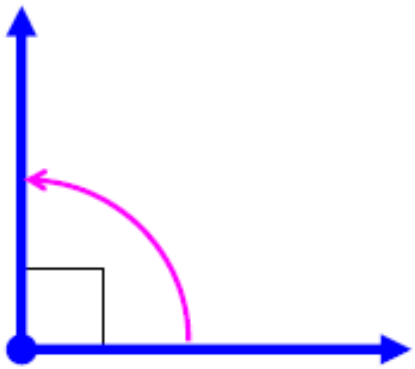
---

right angle



---

right angle

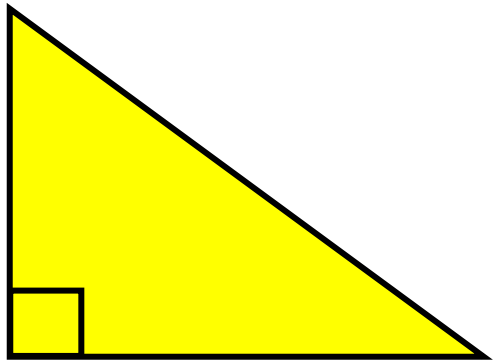


An angle that measures exactly 90º.

right triangle

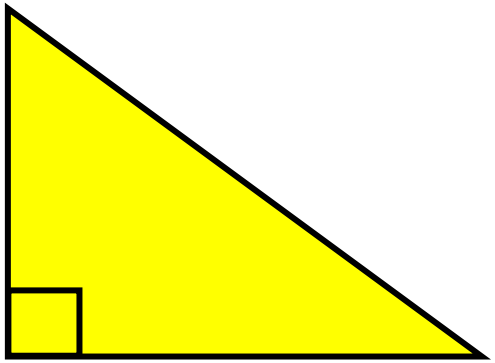
---

right triangle



---

right triangle

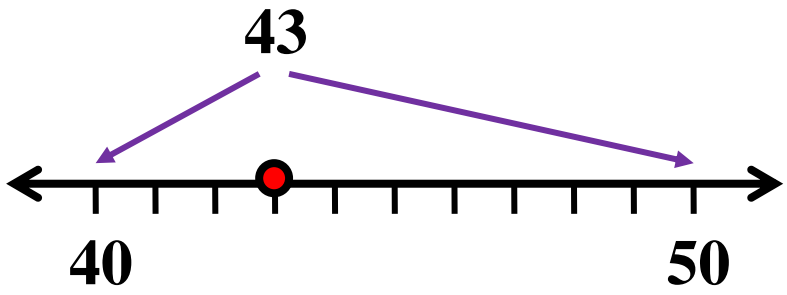


A triangle that has one 90º angle.

round a whole number

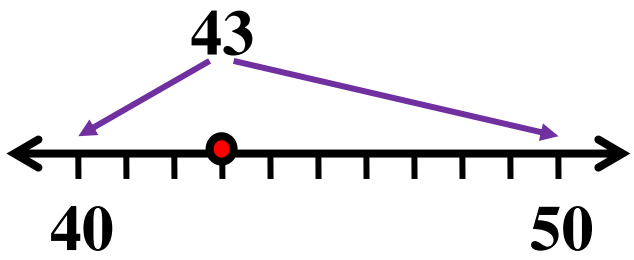
---

round a whole number



---

round a whole number

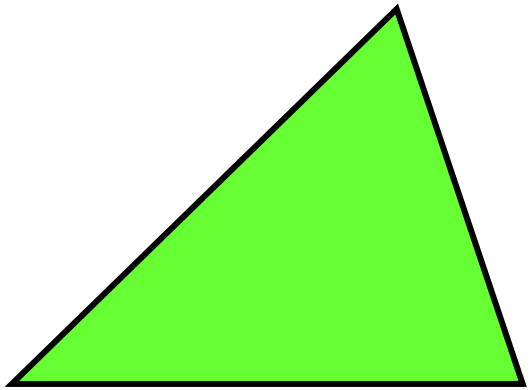


To find the nearest ten, hundred, thousand, (and so on).

scalene triangle

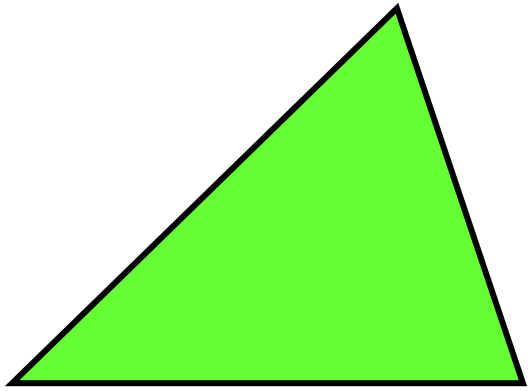
---

scalene triangle



---

scalene triangle



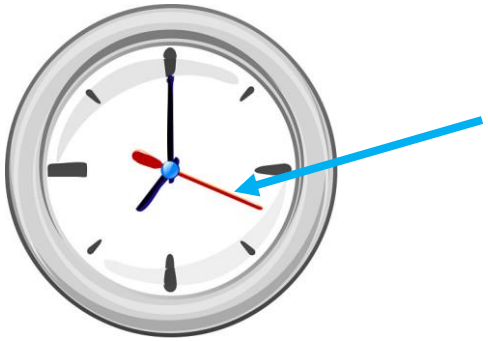
A triangle that has no equal sides.

second (sec)

(unit of time)

second (sec)

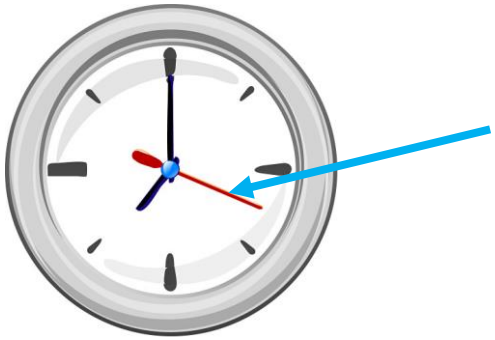
(unit of time)



60 seconds = 1 minute

second (sec)

(unit of time)



60 seconds = 1 minute

A unit used to measure a very short amount of time; there are 60 seconds in one minute.

sequence

---

sequence

2, 5, 8, 11, 14, 17…

What is the pattern?

---

sequence

2, 5, 8, 11, 14, 17…

What is the pattern?

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

simplest form

simplest form



$\frac{4}{8}$ **in simplest form is** $\frac{1}{2}$**.**

simplest form

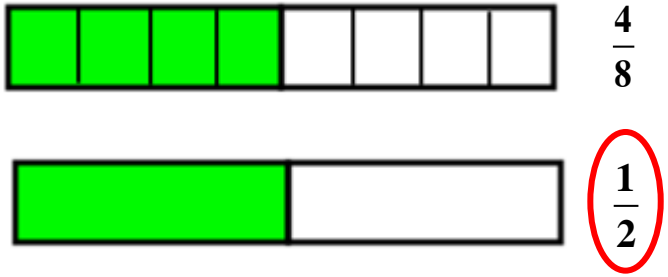


$\frac{4}{8}$ **in simplest form is** $\frac{1}{2}$**.**

When a fraction is expressed with the fewest possible pieces, it is in simplest form. (also known as lowest terms)

simplify

simplify



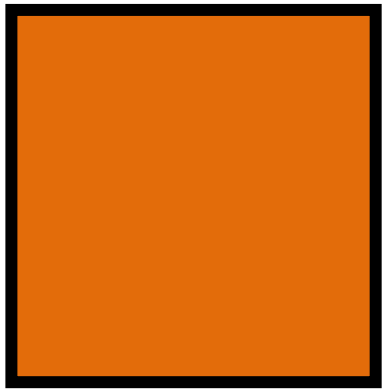
simplify



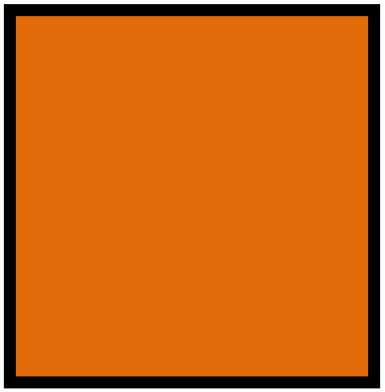
To express a fraction in simplest form.

square

square



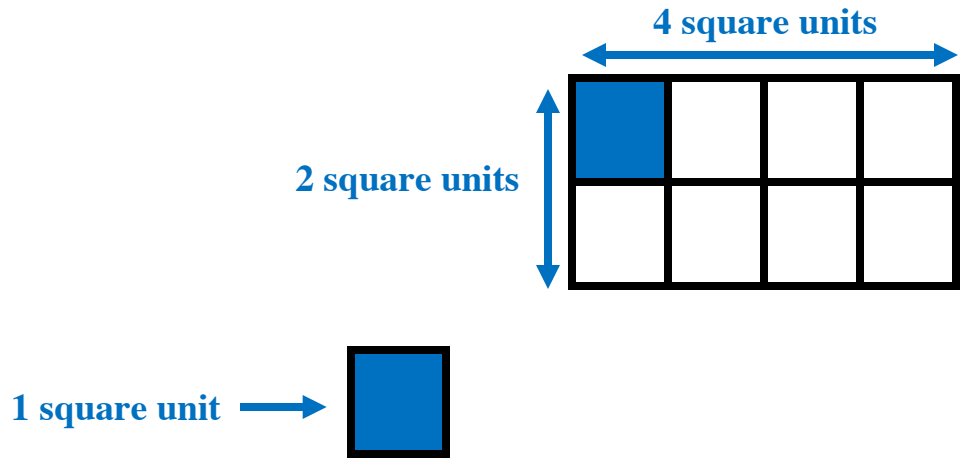
square



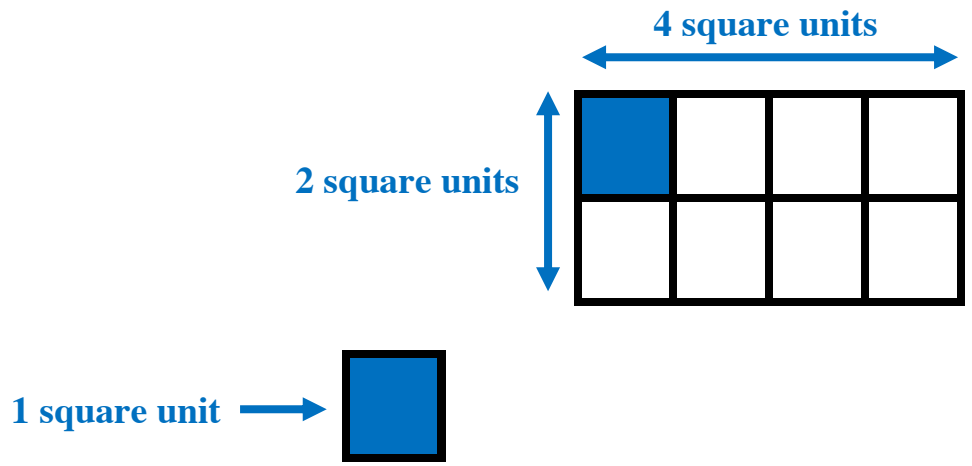
A parallelogram with
4 equal angles
AND 4 equal sides.

square unit

square unit



square unit



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

standard form

---

standard form

12,345

---

standard form

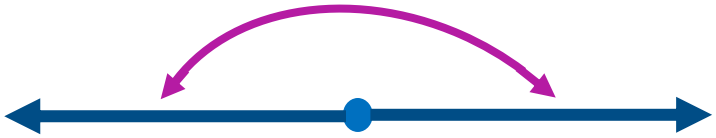
12,345

A common or usual way of writing a number using digits. (also known as base-ten numeral form)

straight angle

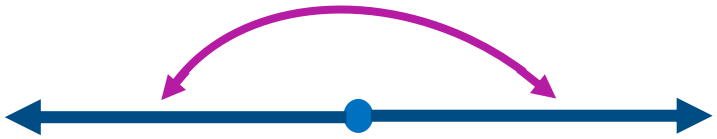
---

straight angle



---

straight angle

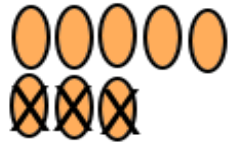


An angle that measures exactly 180º.

subtract

subtract

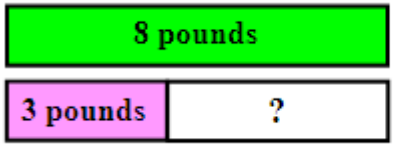




8 – 3 = 5

8 – 3 = 5

subtract





8 – 3 = 5

8 – 3 = 5

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

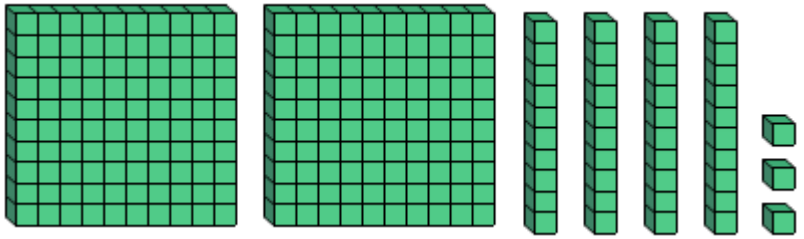


sum

The answer to an addition problem.

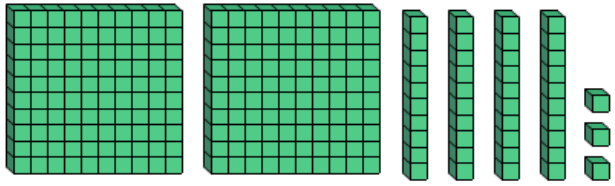
tens

tens



Hundreds	Tens	Ones
2	4	3

tens

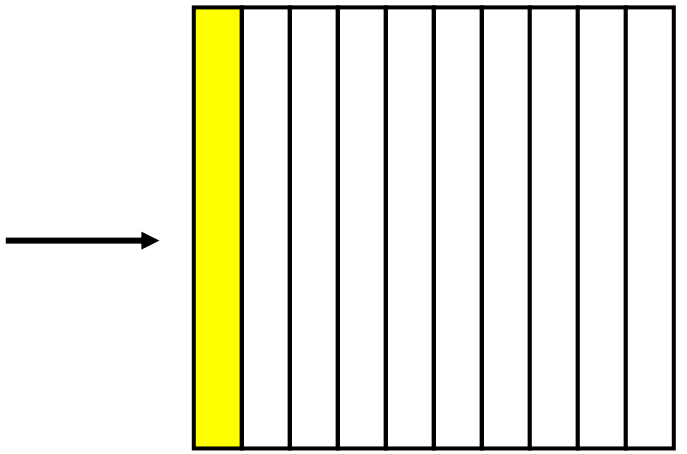


Hundreds	Tens	Ones
2	4	3

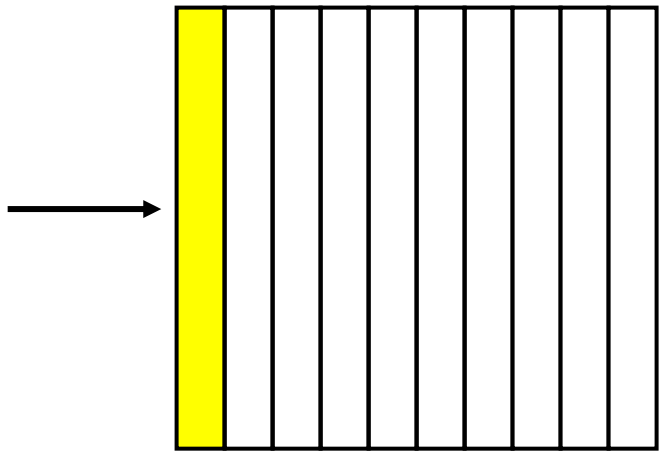
The value of a digit that is the second position from the right when describing whole number place value.

tenth

tenth



tenth



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

tenths

tenths



tenths

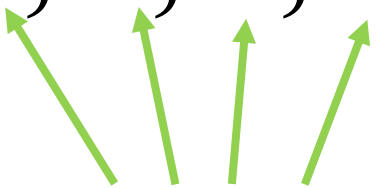


In the decimal numeration, tenths is the name of the place to the right of the decimal point.

term

term

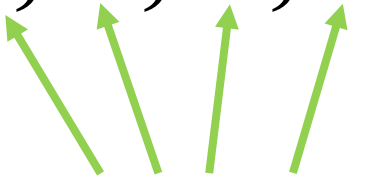
3, 5, 7, 9…



terms

term

3, 5, 7, 9…

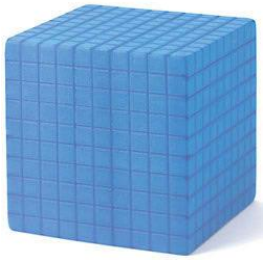


terms

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

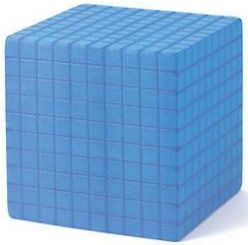
thousands

thousands



Thousands	Hundreds	Tens	Ones
1	0	0	0

thousands



Thousands	Hundreds	Tens	Ones
1	0	0	0

The value of a digit that is the fourth position from the right when describing whole number place value.

time interval

---

time interval



---

time interval



A duration of a segment of time. (also known as elapsed time)

ton (T)

ton (T)



A small car weighs about 1 ton.

ton (T)



A small car weighs about 1 ton.

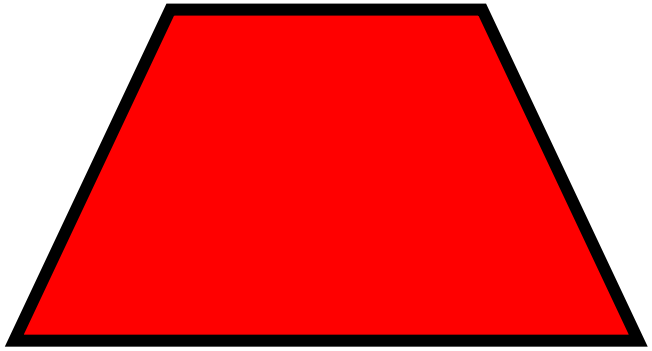
A customary unit of weight.
1 ton (T) = 2,000 pounds

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

trapezoid

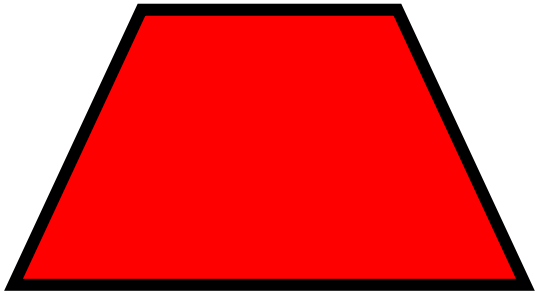
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trapezoid



---

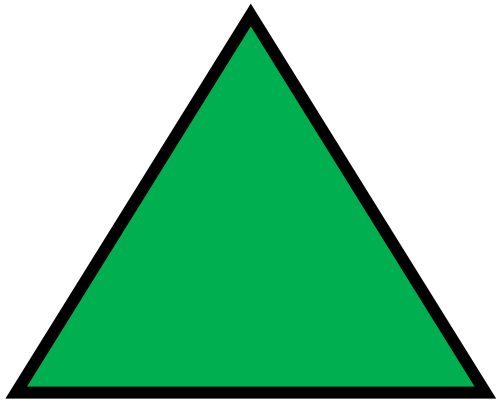
trapezoid



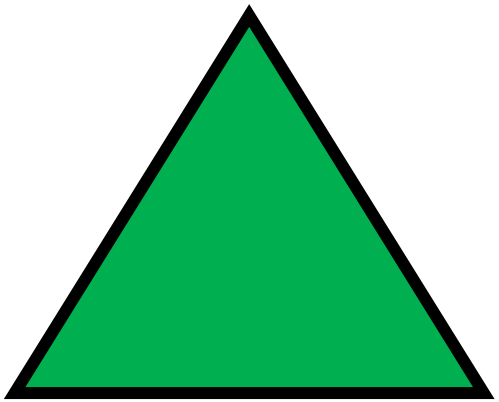
A quadrilateral with
1 pair of parallel sides
and 1 pair of sides
that are not parallel.

triangle

triangle



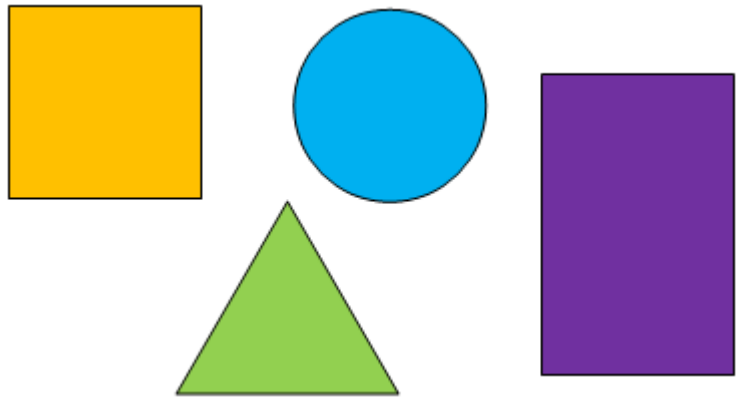
triangle



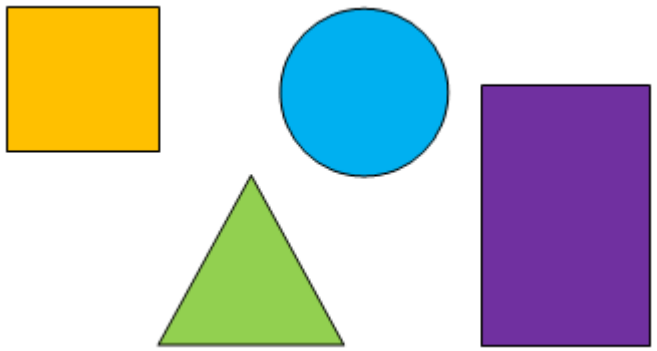
A polygon with 3 sides
and 3 angles.

two-dimensional figure

two-dimensional figure



two-dimensional figure

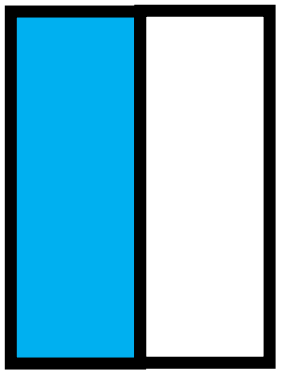


A plane, flat figure that has length and width.

unit fraction

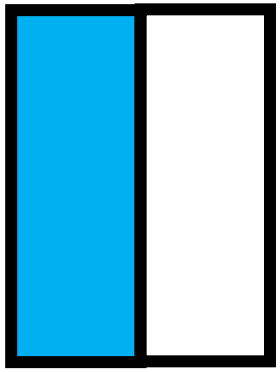
unit fraction

$\frac{1}{2}$



unit fraction

$\frac{1}{2}$



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

unlike denominators

unlike denominators

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

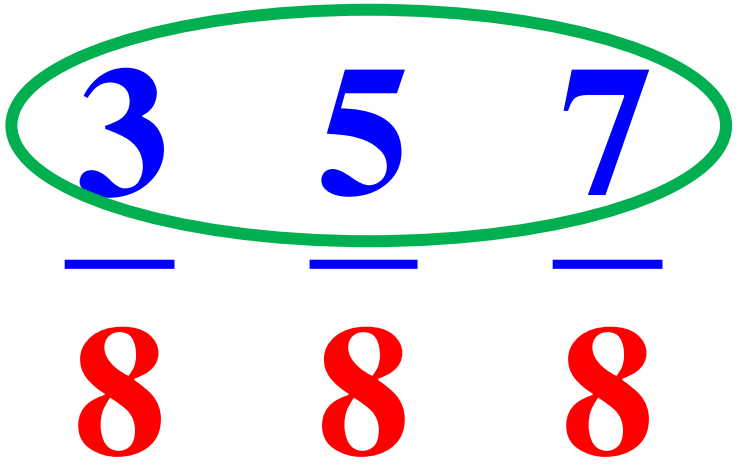
unlike denominators

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

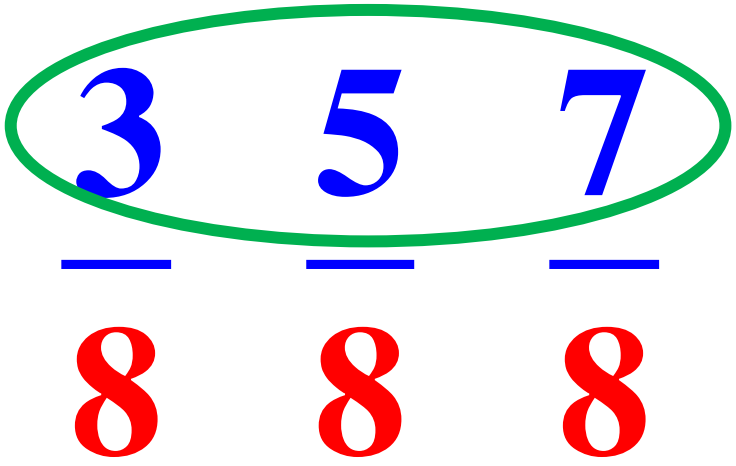
Denominators that are not equal.

unlike numerators

unlike numerators



unlike numerators



Numerators that are not equal.

variable

---

variable $5 \times b = 10$

b **is a variable worth 2.**

---

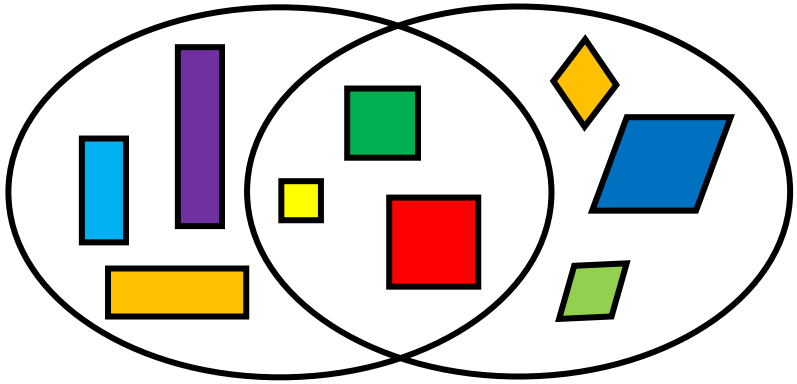
variable $5 \times b = 10$

b **is a variable worth 2.**

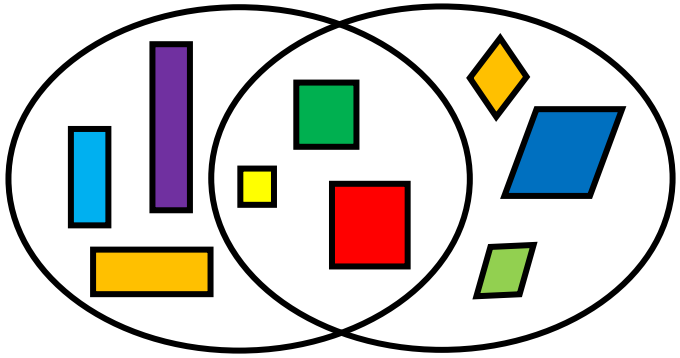
A letter or symbol that represents a number.

Venn diagram

Venn diagram



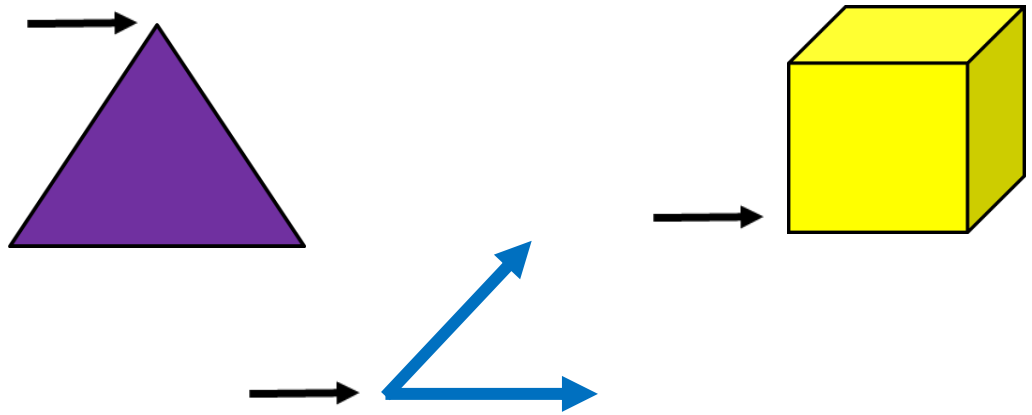
Venn diagram



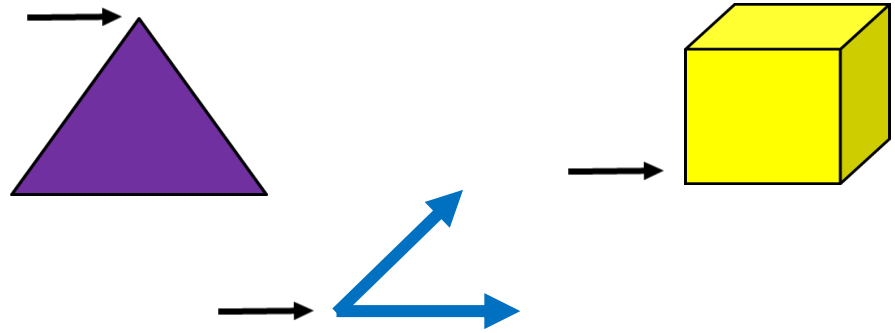
A drawing with circles or rings to show how sets of objects are related.

vertex

vertex



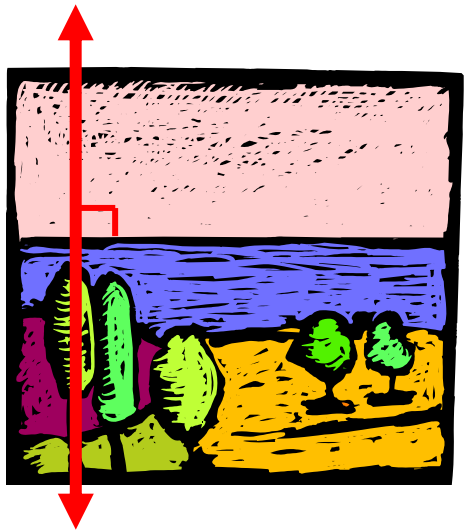
vertex



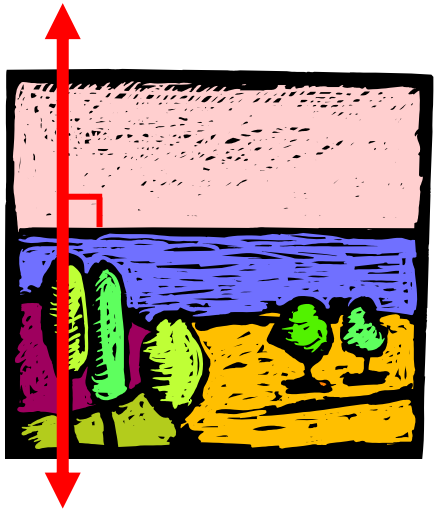
The point at which two line segments, lines, or rays meet to form an angle. (plural - vertices)

vertical

vertical



vertical



Perpendicular to the horizon. Vertical lines go up and down.

volume

(liquid)

volume

(liquid)



liquid volume

volume

(liquid)



liquid volume

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

week

week

September						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

7 days = 1 week

week

September						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

7 days = 1 week

There are seven days in a week: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday.

weight

weight





weight

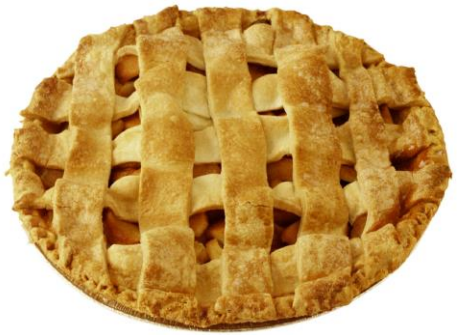




The measure of how heavy something is.

whole

whole



1 whole pie



1 whole rectangle

whole



1 whole pie



1 whole rectangle

All of an object,
a group of objects,
shape, or quantity.

whole numbers

whole numbers



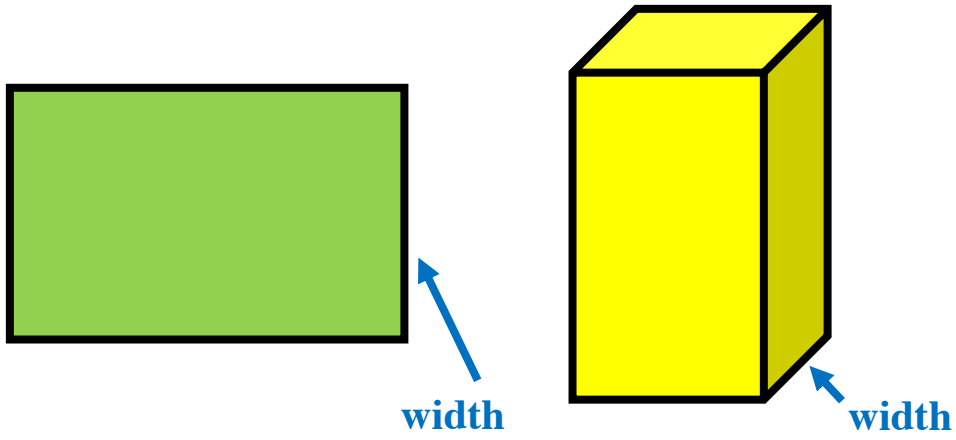
whole numbers



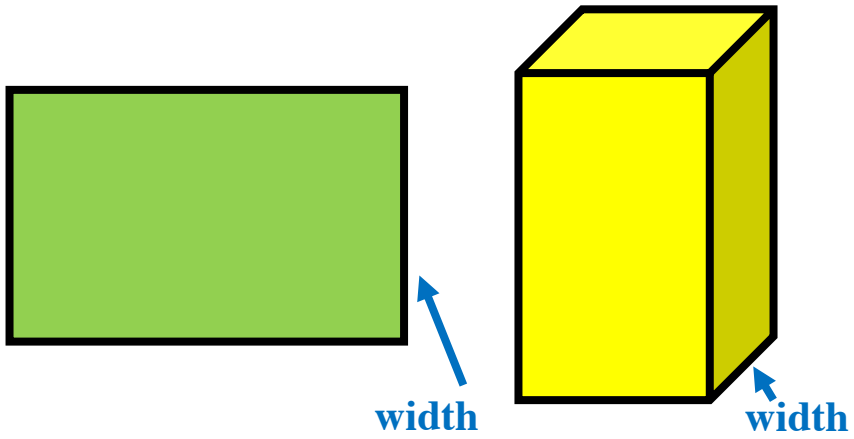
Whole numbers are 0 and the counting numbers 1, 2, 3, 4, 5, 6, and so on.

width (*w*)

width (*w*)



width (*w*)



One dimension of a two- or three - dimensional figure.

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. (also known as number name)

yard (yd)

yard (yd)



A door is *about* 1 yard wide.

yard (yd)

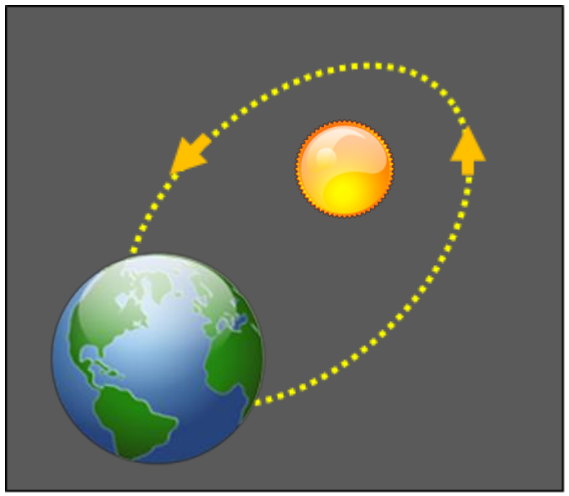


A door is *about* 1 yard wide.

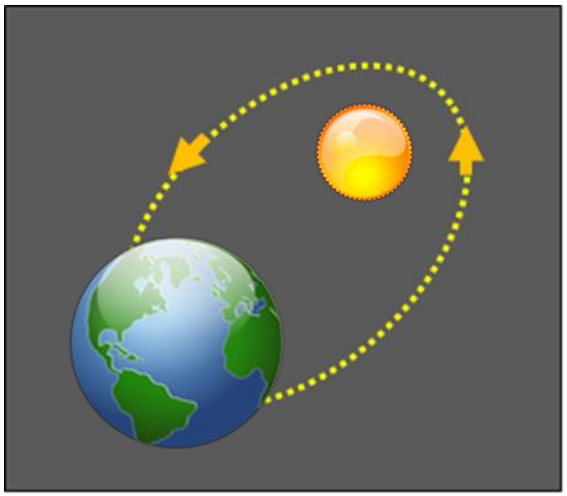
A customary unit of length.
1 yard = 3 feet or 36 inches

year

year



year



The length of time it takes
the Earth to revolve
around the sun.
12 months = 1year
365 days = 1 year
366 days = 1 leap year

Zero Property of Multiplication

Zero Property of Multiplication

$8 \times 0 = 0$

Zero Property of Multiplication

$8 \times 0 = 0$

The product of any factor and zero is 0.