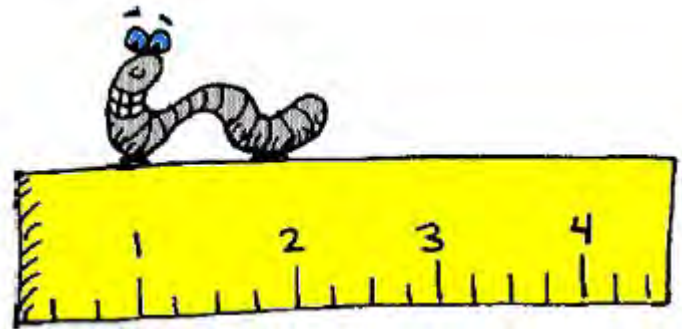
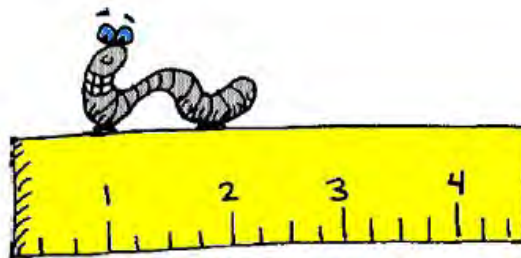


length

length



length



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

less than

less than



$$3 < 5$$

less than



$$3 < 5$$

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

like denominators

like
denominators

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

like
denominators

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

Denominators in two
or more fractions that
are the same.

line

line



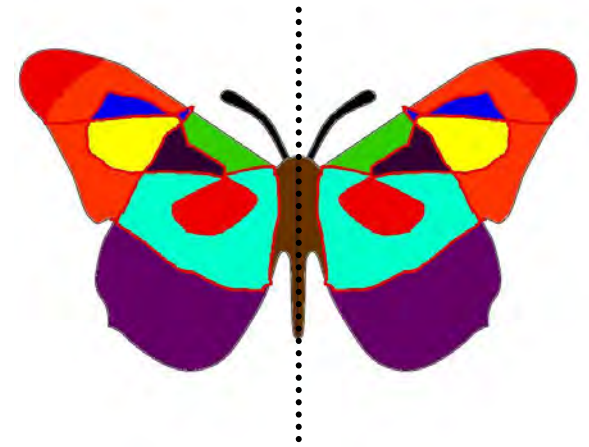
line



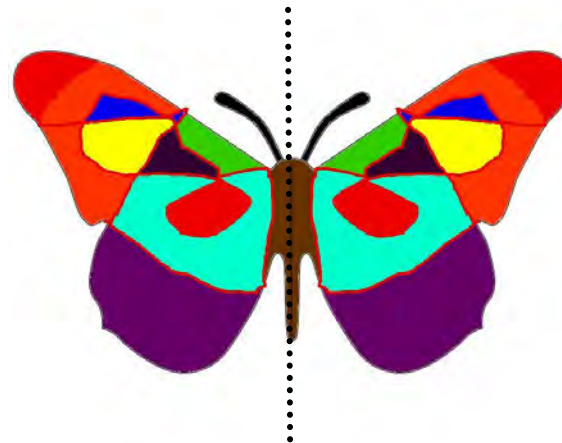
A set of connected points
continuing without end
in both directions.

line of symmetry

line of
symmetry



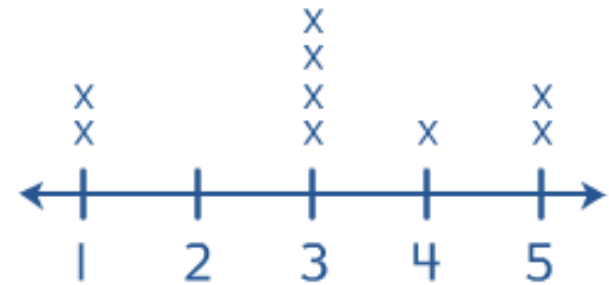
line of
symmetry



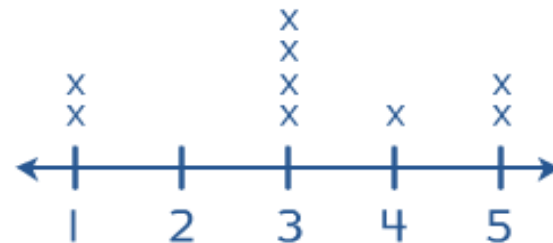
A line that divides a figure into two congruent halves that are mirror images of each other.

line plot

line plot



line plot



A diagram showing frequency of data on a number line.

line segment

line segment



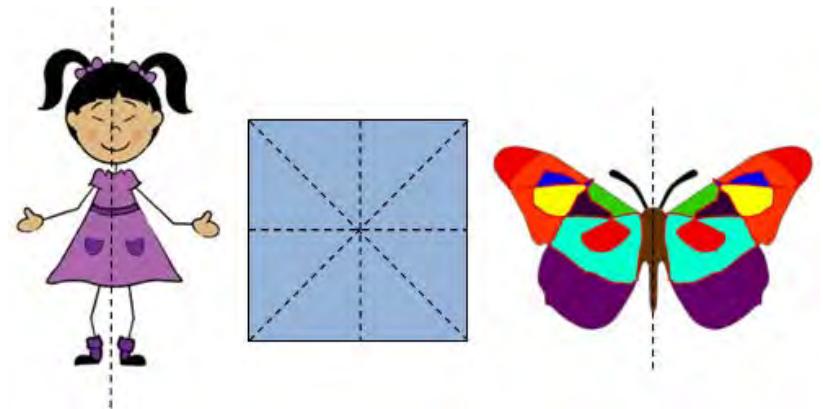
line segment



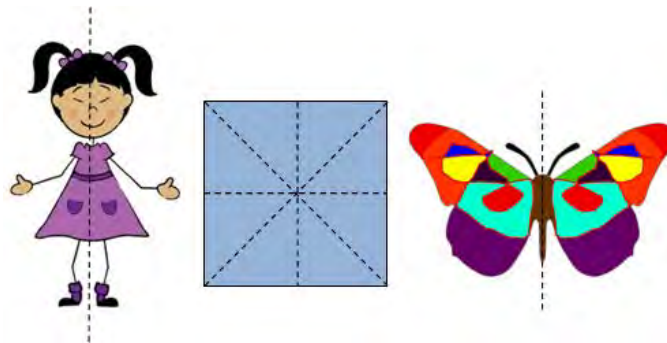
A part of a line with
two endpoints.

line symmetric figures

line symmetric
figures



line
symmetric
figures



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

liter (L)

liter (L)

large bottle of soda or
bottle of water



1,000 mL = 1 L

large bottle of soda or
bottle of water



1,000 mL = 1 L

liter (L)

The basic unit of
capacity in the metric
system.

1 liter = 1,000 milliliters.

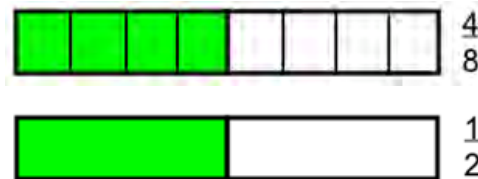
lowest terms

lowest terms



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

lowest terms



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

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

mass

mass



mass



The amount of matter in an object. Usually measured by comparing with an object of known mass. While gravity influences weight, it does not affect mass.

meter (m)

meter (m)



A baseball bat is *about* 1 meter long.

meter (m)

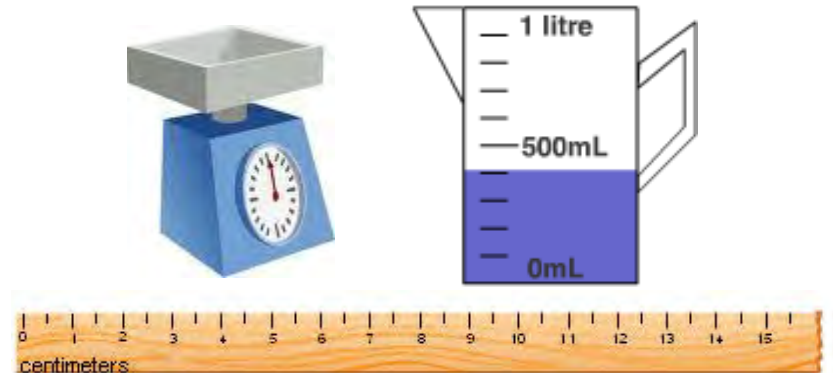


A standard unit of length in the metric system.

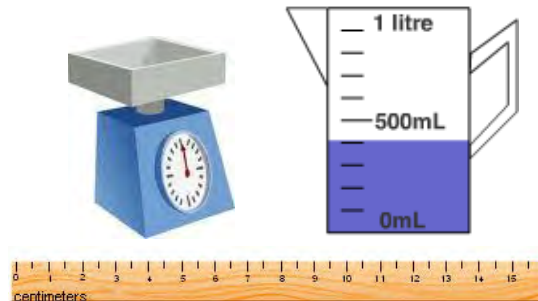
A baseball bat is *about* 1 meter long.

metric system

metric
system



metric
system



A system of measurement based on tens. The basic unit of capacity is the liter. The basic unit of length is the meter. The basic unit of mass is the gram.

mile

mile



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

mile



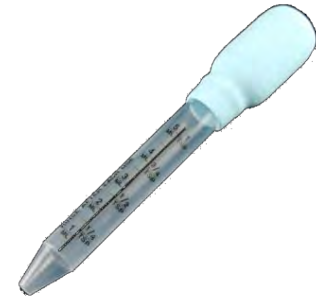
Two times around the average roller coaster is *about* 1 mile.

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

milliliter (mL)

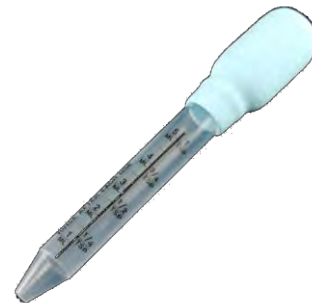
This holds about 10 drops or 1 milliliter.

milliliter (mL)



This holds about 10 drops or 1 milliliter.

milliliter (mL)



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

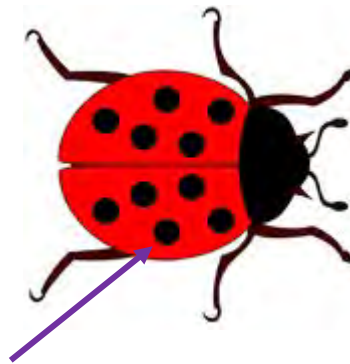
millimeter (mm)

millimeter (mm)



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

millimeter (mm)



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

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

minute (min)

minute (min)



minute (min)



One sixtieth of an
hour or 60 seconds.

mixed number

mixed
number

$1\frac{5}{8}$

$4\frac{3}{4}$

mixed
number

$1\frac{5}{8}$

$4\frac{3}{4}$

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

multiple

multiple

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

multiple

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

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

multiplicative comparison

multiplicative comparison



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

multiplicative comparison

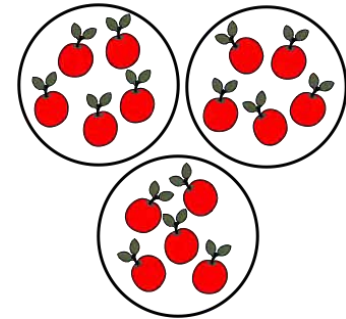


Amy has 5 baseball cards. Jeff has 3 times as many cards as Amy. How many baseball cards did they have altogether?

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

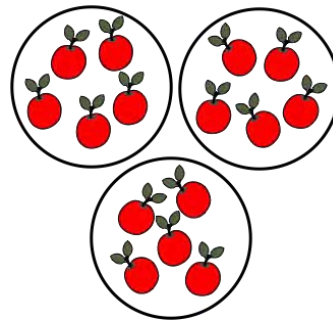
multiply

multiply



3×5 is the same as $5 + 5 + 5$

multiply

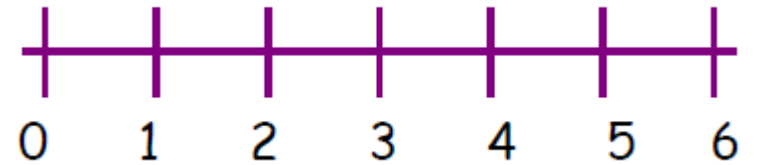


$3 \times 5 = 5 + 5 + 5$

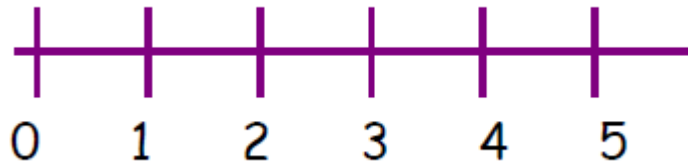
The operation of repeated
addition of the same
number.

number line

number line



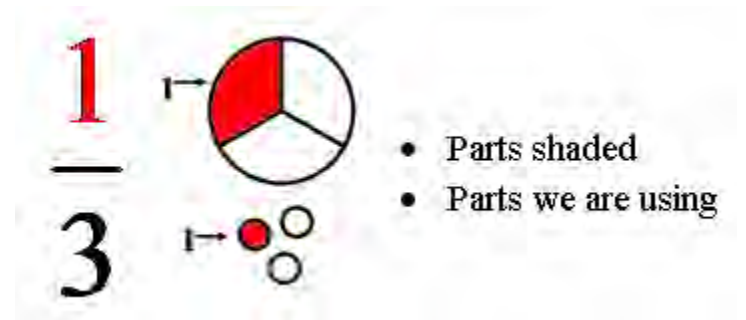
number
line



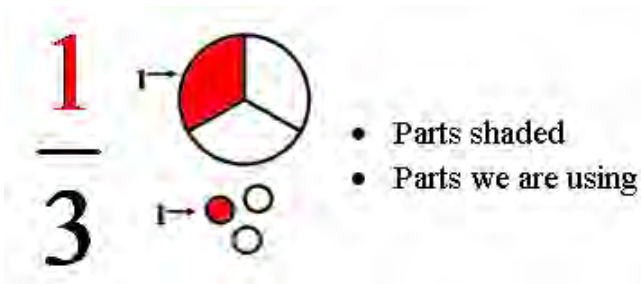
A diagram that
represents numbers as
points on a line.

numerator

numerator



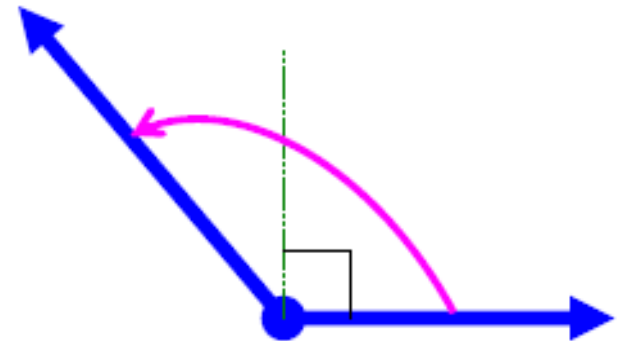
numerator



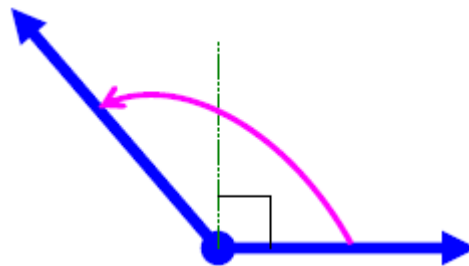
The number written above the line in a fraction. It tells how many equal parts are described in the fraction.

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)

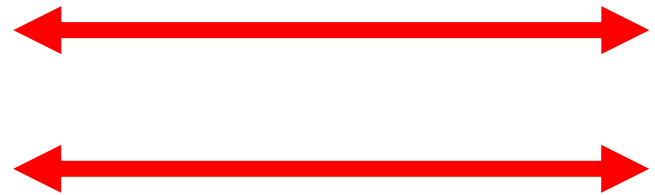


A strawberry weighs about 1 ounce.

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



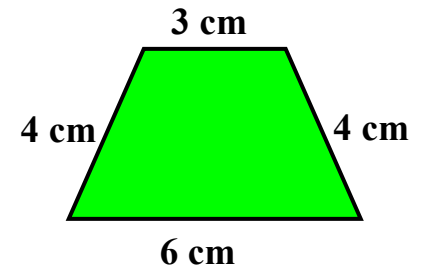
pattern



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

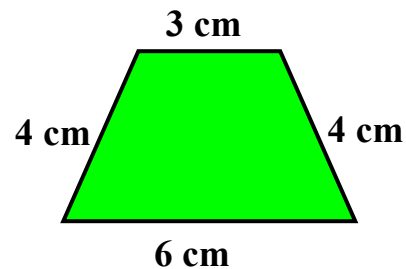
perimeter

perimeter



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

perimeter

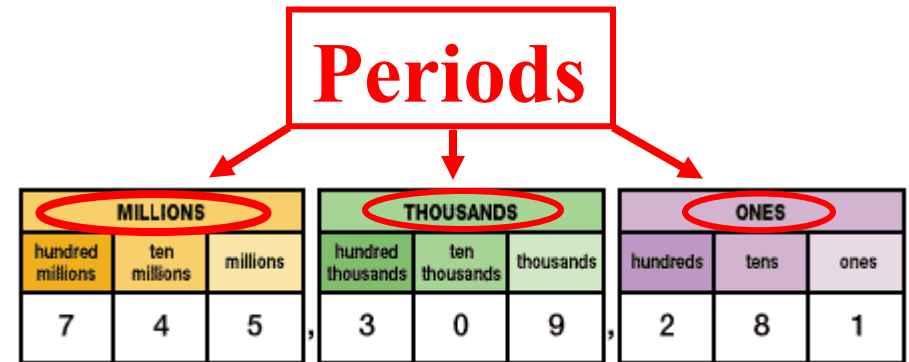


$$\begin{aligned}\text{Perimeter} &= 4\text{cm} + 6\text{cm} + 4\text{cm} + 3\text{cm} \\ &= 17\text{cm}\end{aligned}$$

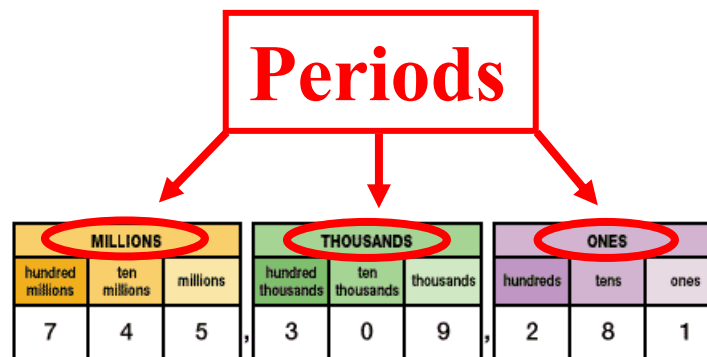
The distance around the outside of a figure.

period

period



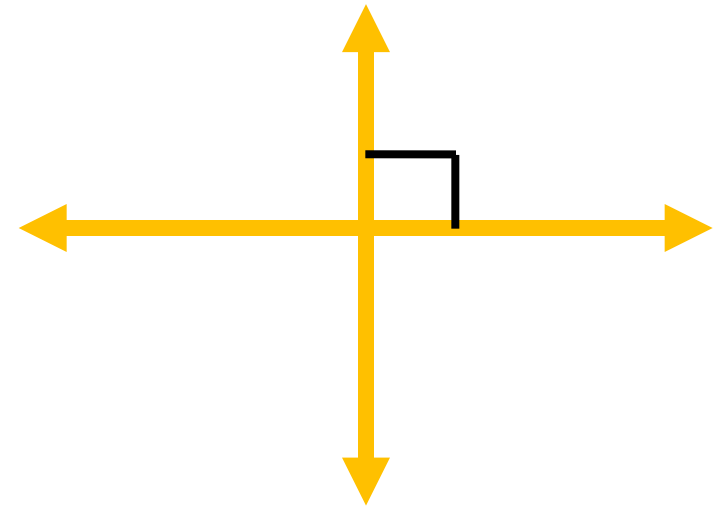
period



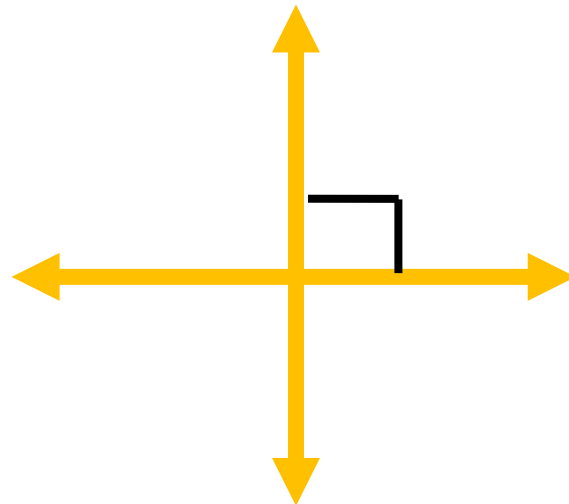
In a large number, periods are groups of 3 digits separated by commas or by spaces.

perpendicular lines

perpendicular lines



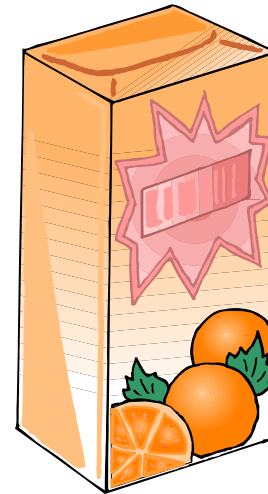
perpendicular
lines



Two intersecting lines
that form right angles.

pint (pt)

pint (pt)



The orange
juice carton
holds 1 pint.

pint (pt)



The orange
juice carton
holds 1 pint.

A customary unit of
capacity.
1 pint = 2 cups

place value

place value

MILLIONS			THOUSANDS			ONES		
hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
7	4	5	3	0	9	2	8	1

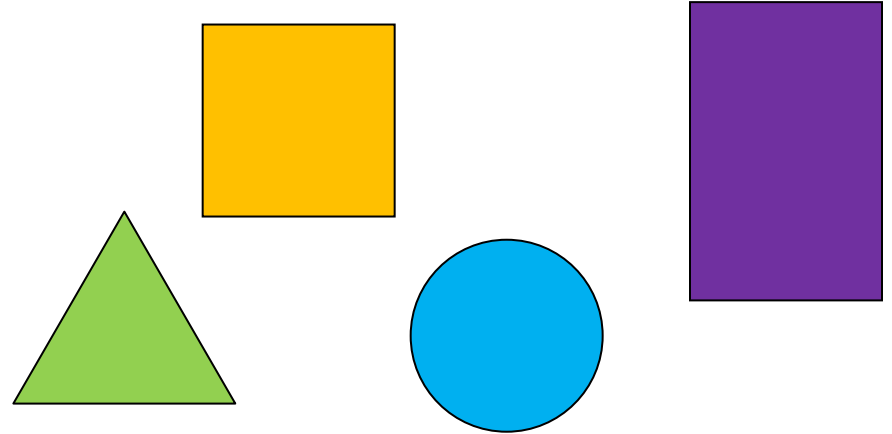
place value

MILLIONS			THOUSANDS			ONES		
hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
7	4	5	3	0	9	2	8	1

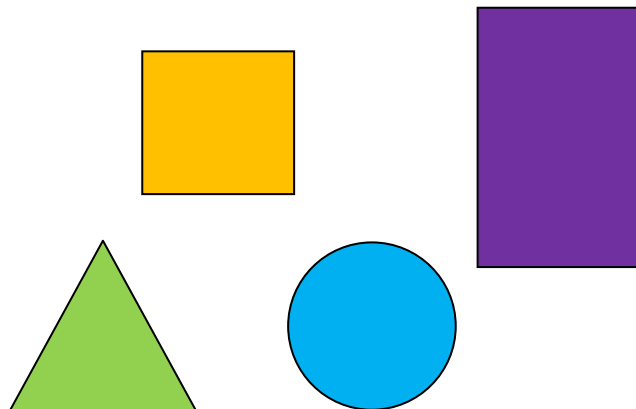
The value of the place of a digit in a number.

plane figure

plane
figure



plane
figure



A two-dimensional figure.

point

point



point



The exact location in space
represented by a dot.

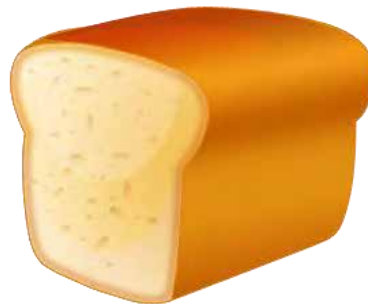
pound (lb)

pound (lb)



A loaf of bread weighs *about* 1 pound.

pound (lb)



A loaf of bread weighs *about*
1 pound.

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

prime number

prime
number



$$1 \times 5 = 5$$

5 is a prime number

prime
number




$$1 \times 5 = 5$$

5 is a prime number


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

product

product

$$5 \times 3 = 15$$


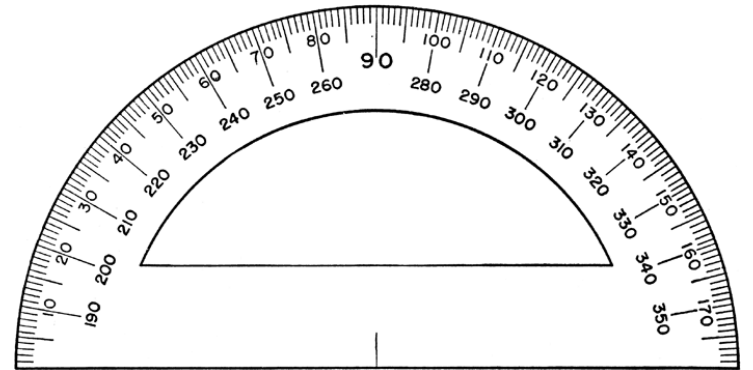
product

$$5 \times 3 = 15$$


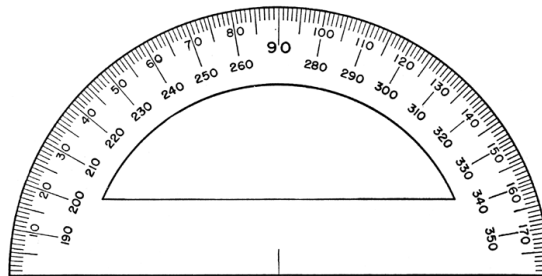
The answer to a
multiplication
problem.

protractor

protractor



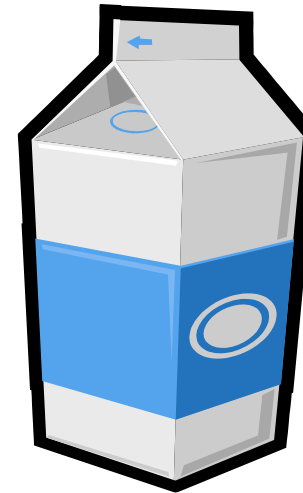
protractor



A tool used to measure and draw angles.

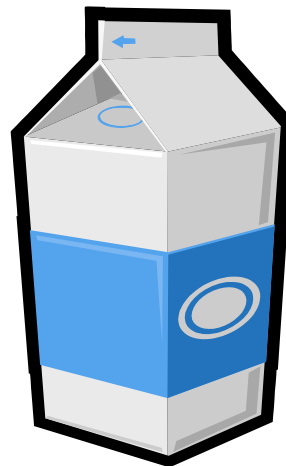
quart (qt)

quart (qt)



The milk carton holds 1 quart.

quart (qt)



The milk carton holds 1 quart.

A customary unit of capacity.

1 quart = 2 pints
or

1 quart = 4 cups

quotient

quotient

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

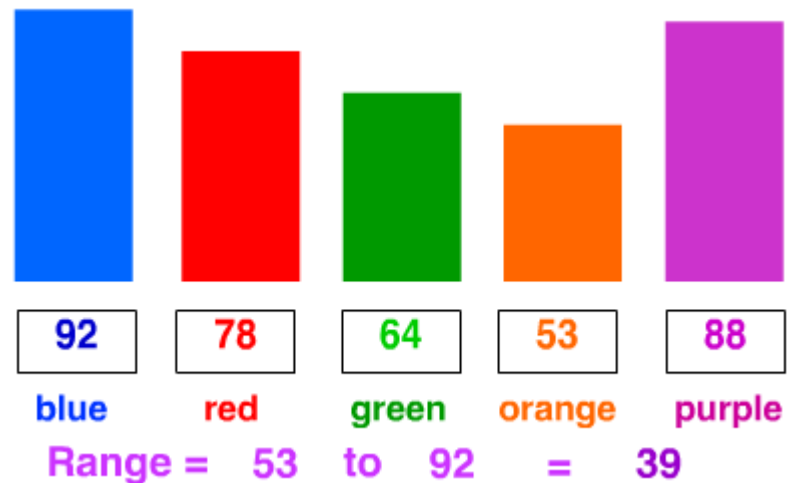
quotient

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

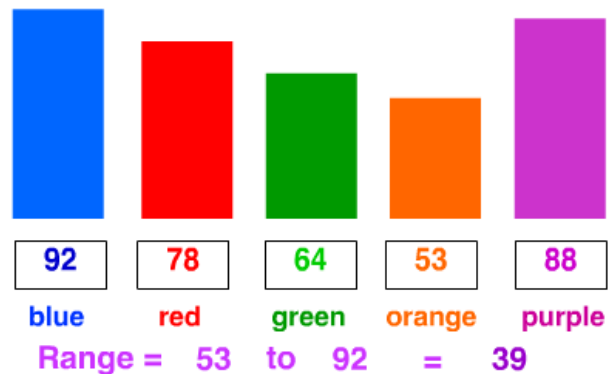
The answer to a
division problem.

range

range



range



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

ray

ray



ray



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

reasonableness

reasonableness

What is the product of 57 and 34?

- A. 1,938 C. 5,738
B. 3,208 D. 8,698



Use estimation to eliminate unreasonable choices.

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

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

The answer is A.

reasonableness

What is the product of 57 and 34?

- A. 1,938 C. 5,738
B. 3,208 D. 8,698



Use estimation to eliminate unreasonable choices.

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

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

The answer is A.

An answer that is based on good number sense.

related facts

related facts

Related Facts for 3, 5, 8

$3 + 5 = 8$

$8 - 5 = 3$

$5 + 3 = 8$

$8 - 3 = 5$

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.

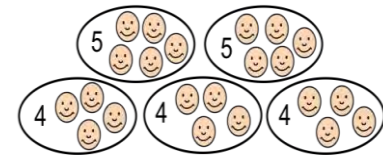
Also called *fact family*.

remainder

remainder

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

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

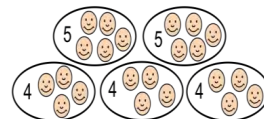


4 or 5 students can be in a group.

remainder

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

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

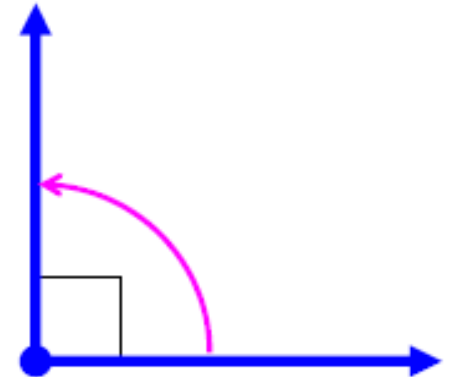


4 or 5 students can be in a group.

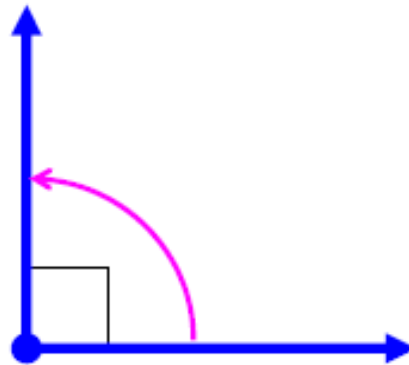
The amount left over
when one number is
divided by another.

right angle

right angle



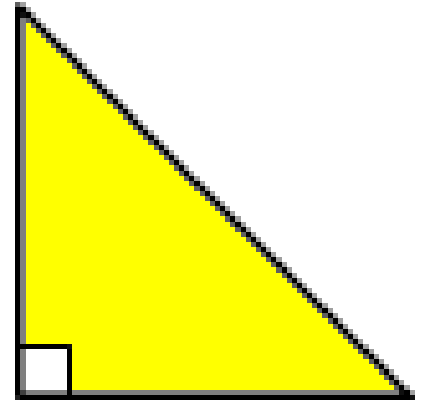
right angle



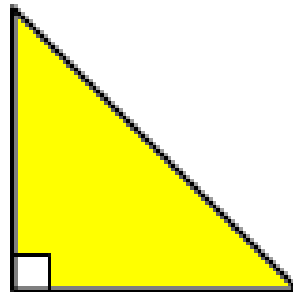
An angle that measures
exactly 90° .

right triangle

right
triangle



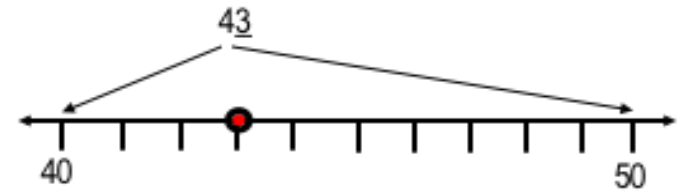
right
triangle



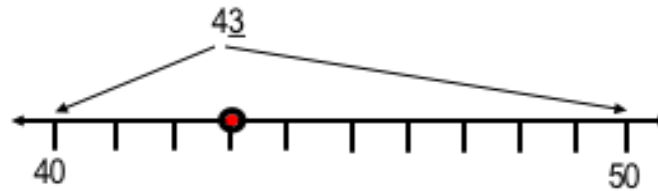
A triangle that has one
 90° angle.

round a whole number

round a
whole number



round a whole
number



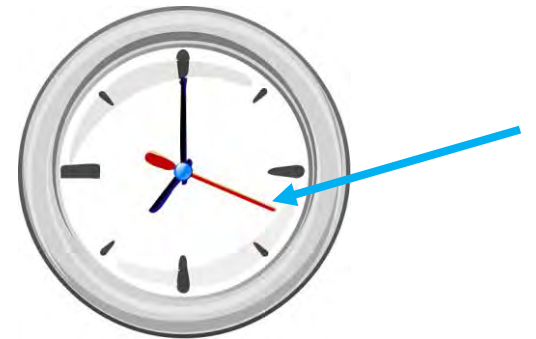
To find the nearest ten,
hundred, thousand,
(and so on).

second (sec)

(unit of time)

second (sec)

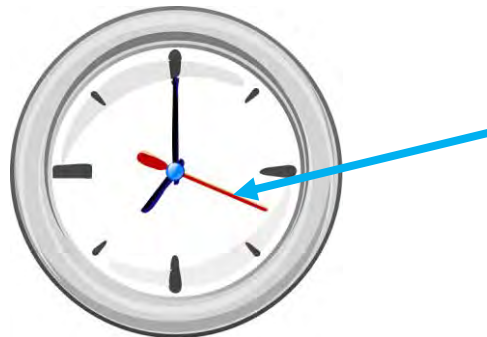
(unit of time)



60 seconds = 1 minute

second (sec)

(unit of time)



60 seconds = 1 minute

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

sequence

sequence

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

sequence

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

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

simplest form

simplest form



simplest form



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

simplify

simplify



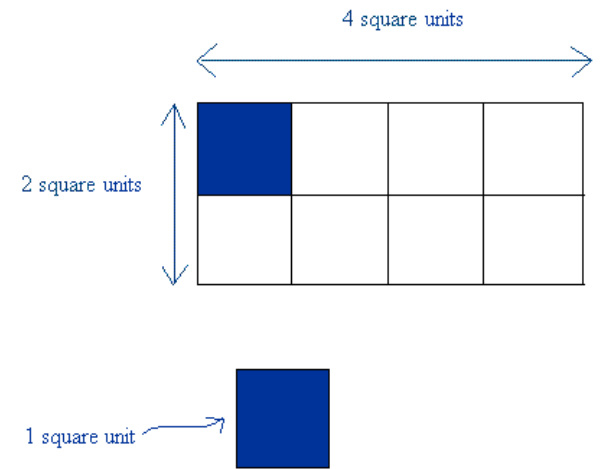
simplify



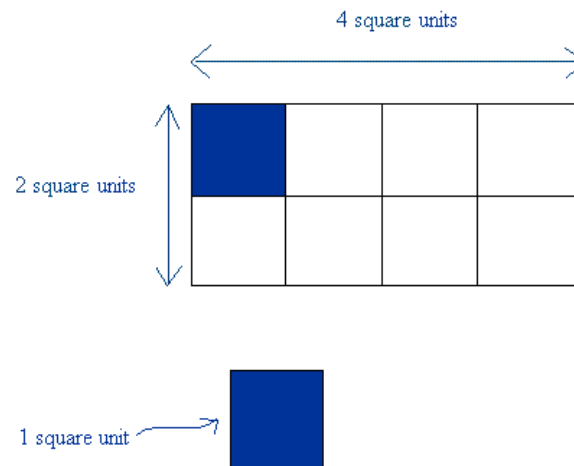
To express a fraction in simplest form.

square unit

square
unit



square
unit



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

standard form

standard form

12,345

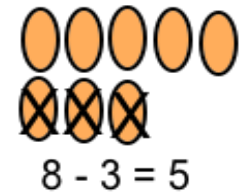
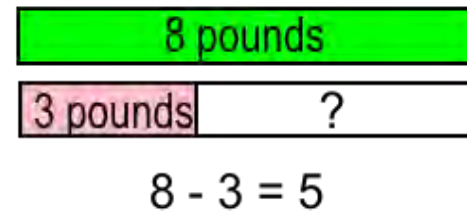
standard form

12,345

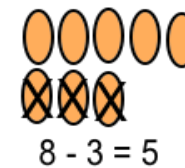
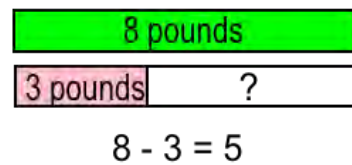
A common or usual
way of writing a
number using digits.

subtract

subtract



subtract



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

sum

sum

$$453 + 929 = 1,382$$

sum

sum

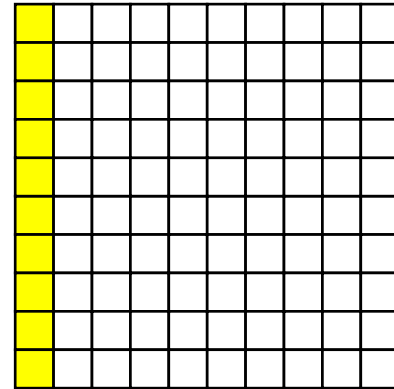
$$453 + 929 = 1,382$$

sum

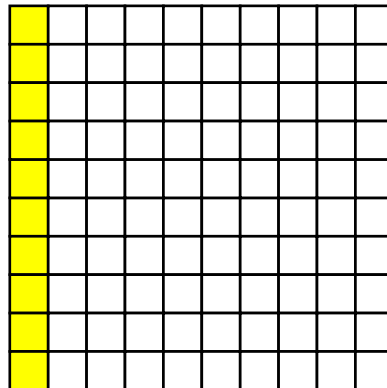
The answer to an
addition problem.

tenth

tenth



tenth



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

time interval

time
interval



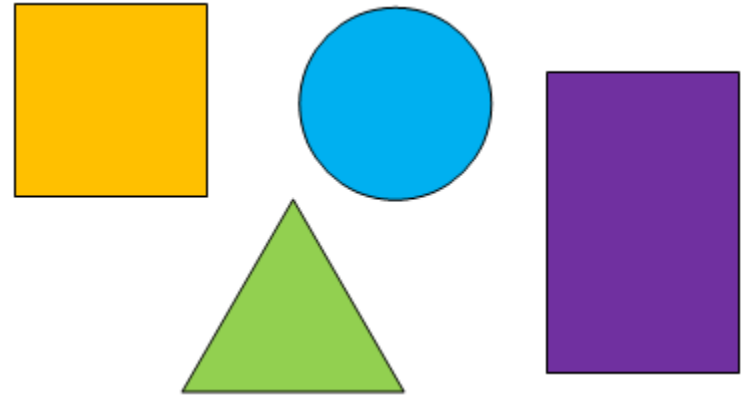
time
interval



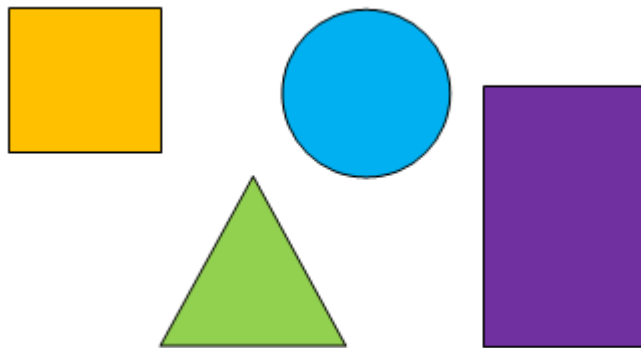
A duration of a
segment of time.

two-dimensional

two-dimensional



two-dimensional



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

unit fraction

unit fraction

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

unit
fraction

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

A fraction that has
1 as its numerator.

unlike denominators

unlike
denominators

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

unlike
denominators

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

Denominators that
are not equal.

variable

variable

$$5 \times b = 10$$

b is a variable worth 2

variable

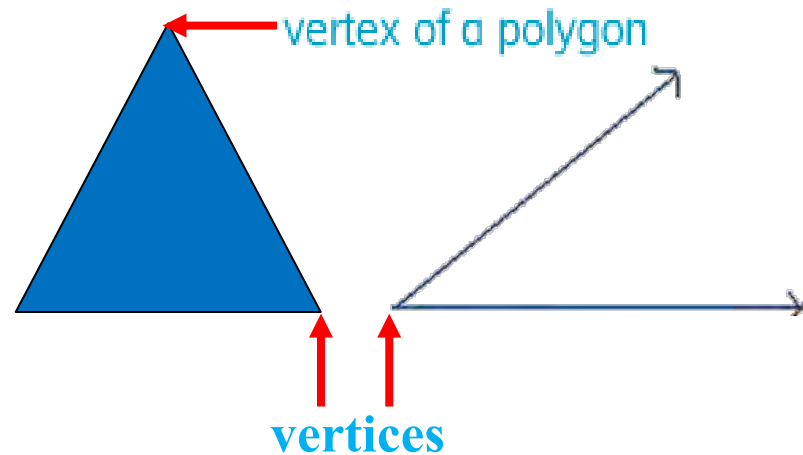
$$5 \times b = 10$$

b is a variable worth 2

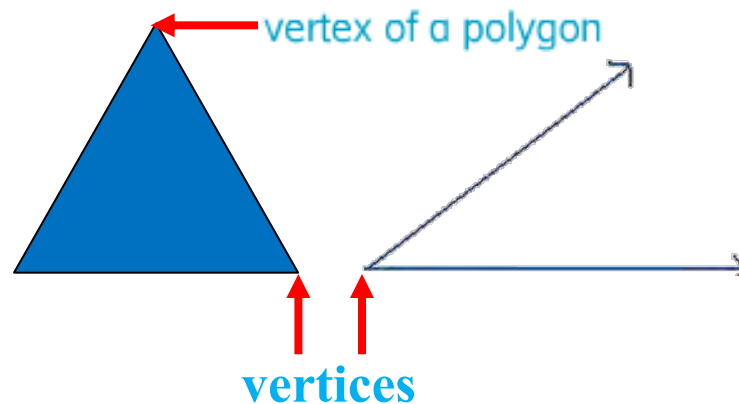
A letter or symbol that represents a number.

vertex

vertex



vertex



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

volume

volume



liquid volume

volume



liquid volume

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

weight

weight



weight



The measure of how heavy something is.

whole numbers

whole
numbers



whole
numbers



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

word form

word form

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

word form

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

A way of using words
to write a number.

yard (yd)

yard (yd)



A door is *about* 1 yard wide.

yard (yd)



A door is *about* 1 yard wide.

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

Zero Property of Multiplication

**Zero Property
of Multiplication**

$$8 \times 0 = 0$$

**Zero Property
of Multiplication**

$$8 \times 0 = 0$$

The product of
any number and
zero is zero.

