

Vocabulary Cards and Word Walls

Revised: November 3, 2011

Important Notes for Teachers:

- The vocabulary cards in this file match the Common Core, the math curriculum adopted by the Utah State Board of Education, August 2010.
- The cards are arranged alphabetically.
- Each card has three sections.
 - Section 1 is only the word. This is to be used as a visual aid in spelling and pronunciation. It is also used when students are writing their own “kid-friendly” definition and drawing their own graphic.
 - Section 2 has the word and a graphic. This graphic is available to be used as a model by the teacher.
 - Section 3 has the word, a graphic, and a definition. This is to be used for the Word Wall in the classroom. For more information on using a Word Wall for Daily Review – see “Vocabulary – Word Wall Ideas” on this website.
- These cards are designed to help all students with math content vocabulary, including ELL, Gifted and Talented, Special Education, and Regular Education students.

For possible additions or corrections to the vocabulary cards, please contact the Granite School District Math Department at 385-646-4239.

Bibliography of Definition Sources:

Algebra to Go, Great Source, 2000. ISBN 0-669-46151-8

Math on Call, Great Source, 2004. ISBN-13: 978-0-669-50819-2

Math at Hand, Great Source, 1999. ISBN 0-669-46922

Math to Know, Great Source, 2000. ISBN 0-669-47153-4

Illustrated Dictionary of Math, Usborne Publishing Ltd., 2003. ISBN 0-7945-0662-3

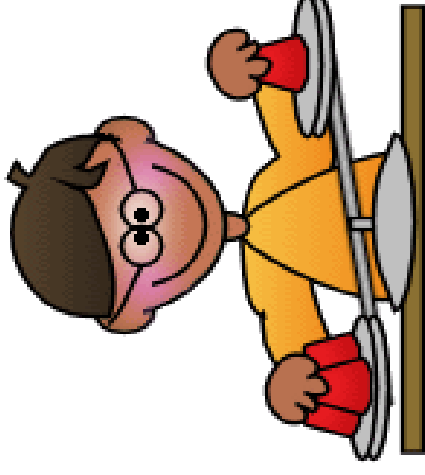
Math Dictionary, Eula Ewing Monroe, Boyds Mills Press, 2006. ISBN-13: 978-1-59078-413-6

Student Reference Books, Everyday Mathematics, 2007.

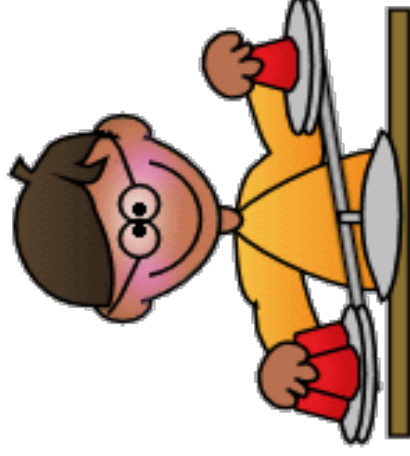
Houghton-Mifflin eGlossary, <http://www.eduplace.com>

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

mass



mass



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.

mass

meter (m)

meter (m)



A baseball bat is *about* 1 meter long.

meter (m)

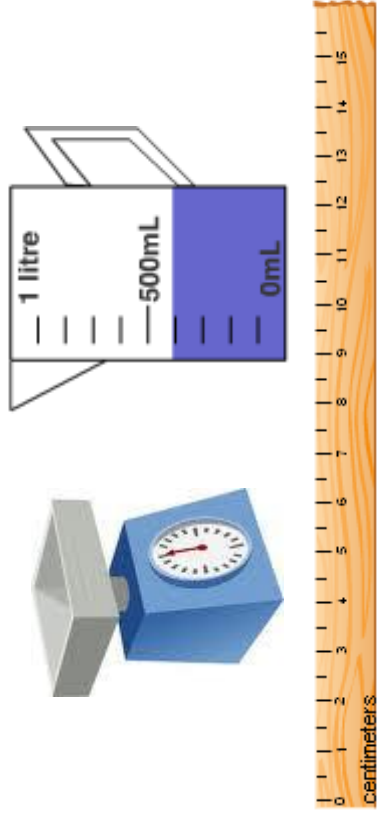


A standard unit of length in the metric system.

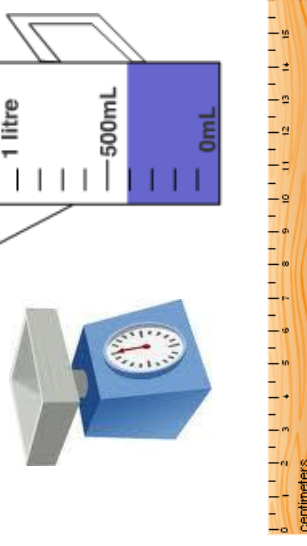
A baseball bat is *about* 1 meter long.

metric system

metric system



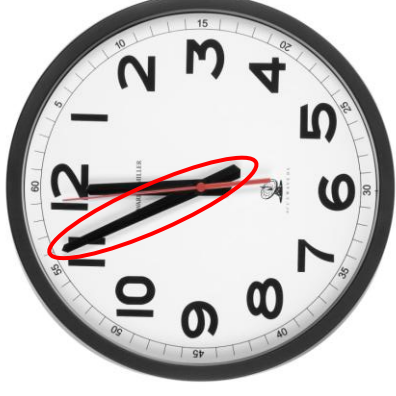
metric system



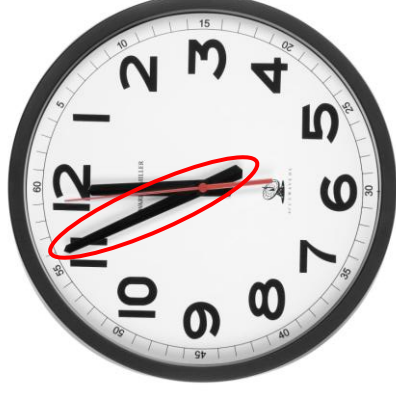
A system of measurement based on tens. The basic unit of capacity is the liter. The basic unit of length is the meter. The basic unit of mass is the gram.

minute (min)

minute
(min)



minute
(min)



One sixtieth of an
hour or 60 seconds.

multiple

multiple

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

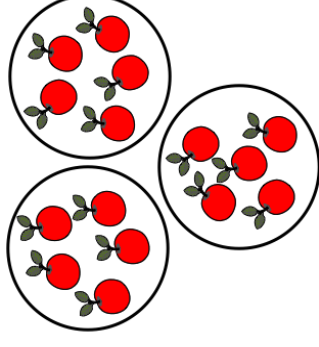
multiple

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

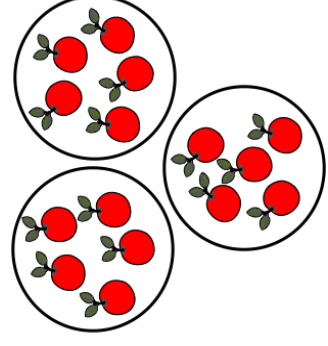
A product of a given whole number and any other whole number.

multiply

multiply



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



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

The operation of repeated addition of the same number.

multiply

number line

number line



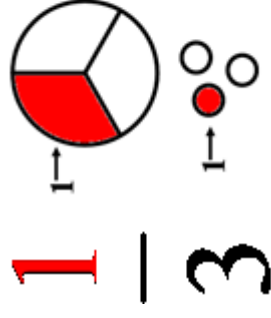
number line



A diagram that
represents numbers
as points on a line.

numerator

numerator



- Parts shaded
- Parts we are using



- Parts shaded
- Parts we are using

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

numerator

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

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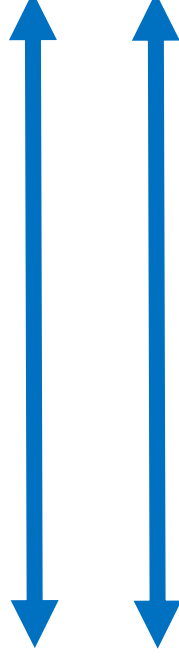
A set of rules that tells the order in which to compute.

parallel lines

parallel
lines



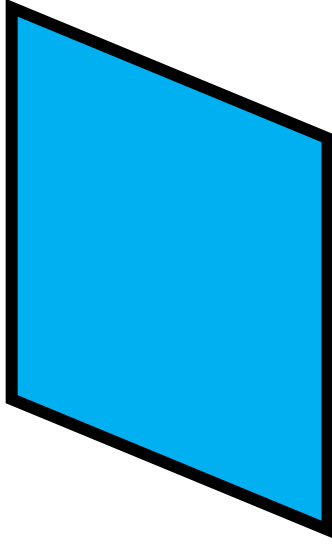
parallel
lines



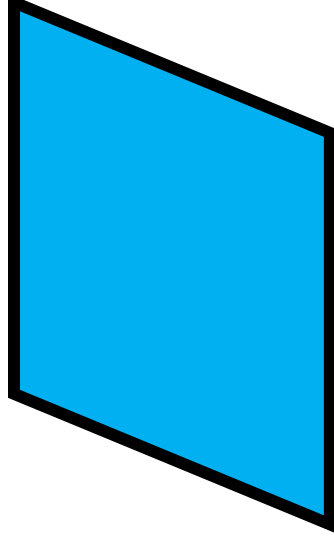
Lines that are
always the same
distance apart.

parallelogram

parallelogram



parallelogram



A quadrilateral
with two 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.

pattern

pattern



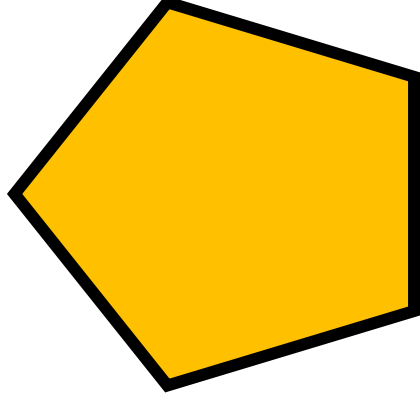
pattern



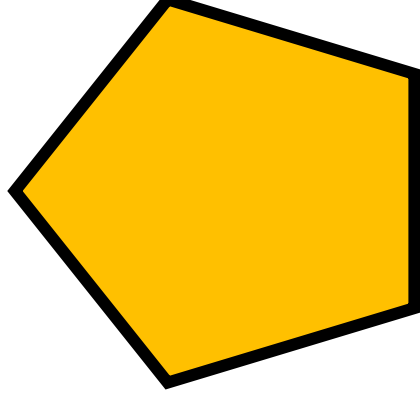
A repeating or growing sequence or design. An ordered set of numbers or shapes arranged according to a rule.

pentagon

pentagon



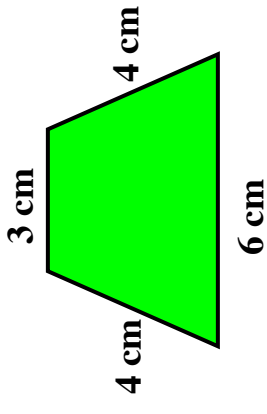
pentagon



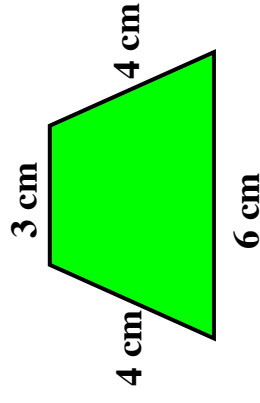
A polygon that has
five sides.

perimeter

perimeter



$$\text{Perimeter} = 4\text{cm} + 6\text{cm} + 4\text{cm} + 3\text{cm} \\ = 17\text{cm}$$



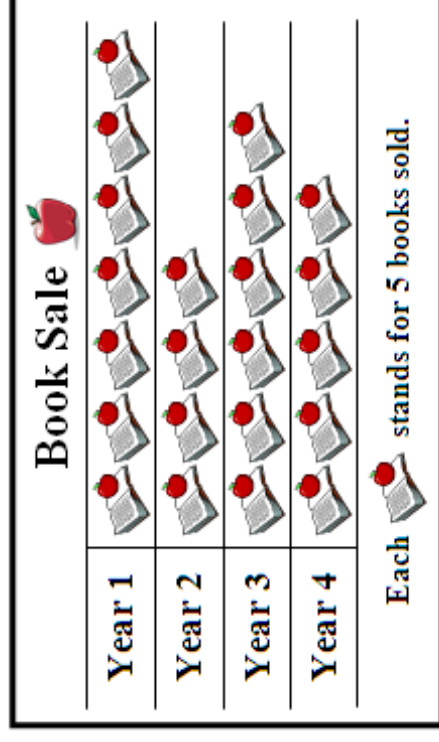
$$\text{Perimeter} = 4\text{cm} + 6\text{cm} + 4\text{cm} + 3\text{cm} \\ = 17\text{cm}$$

perimeter

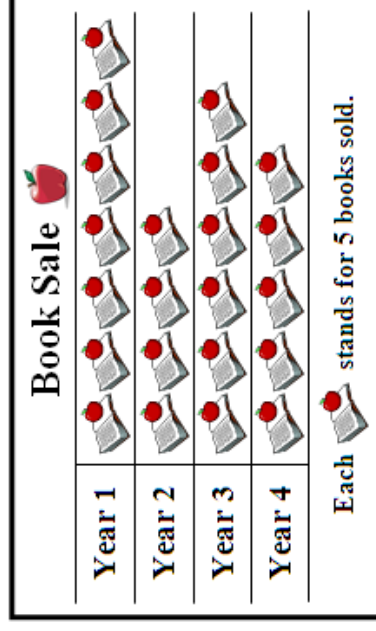
The distance around a figure.

picture graph

picture graph



picture graph



A graph that uses pictures or symbols to show data.

place value

place value

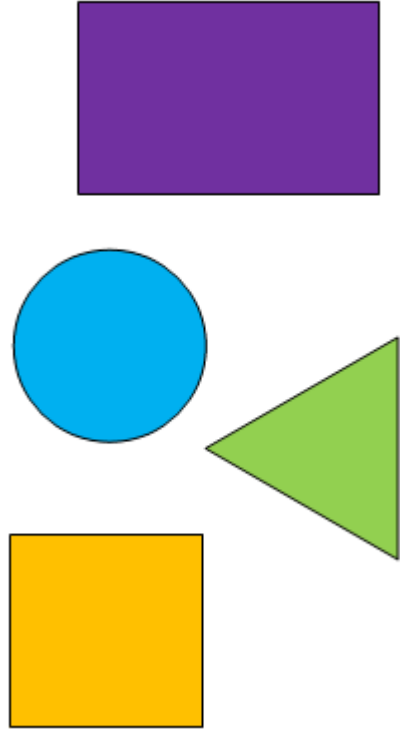
MILLIONS			THOUSANDS			ONES		
hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
7	4	5	3	0	9	2	8	1

place value

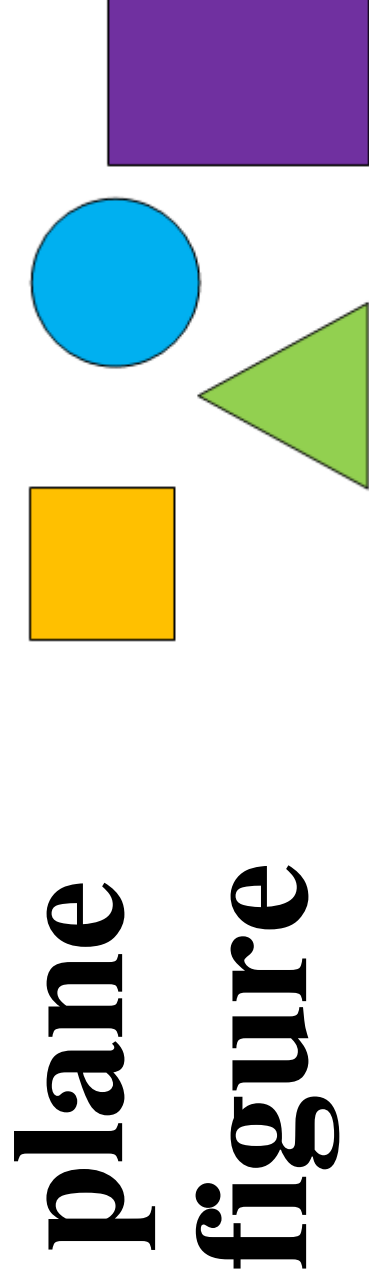
MILLIONS			THOUSANDS			ONES		
hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
7	4	5	3	0	9	2	8	1

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

plane figure



plane figure



A two-dimensional figure.

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.

12 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.

12 midnight

p.m.

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

point

point

A

D

M

point

A

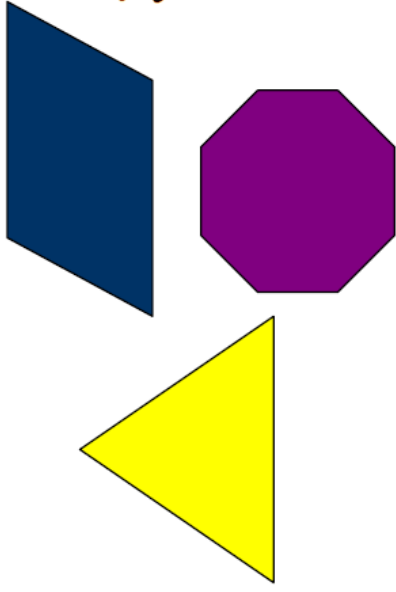
D

M

The exact location in space
represented by a dot.

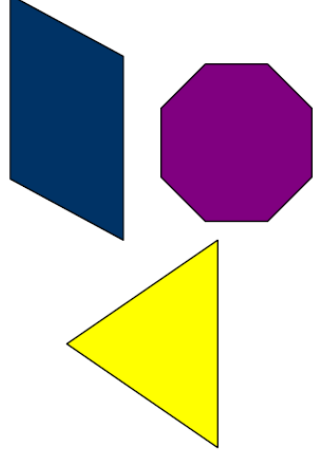
polygon

polygon



3 + sides

polygon




3 + sides

A closed plane figure
made by line segments.

product

product

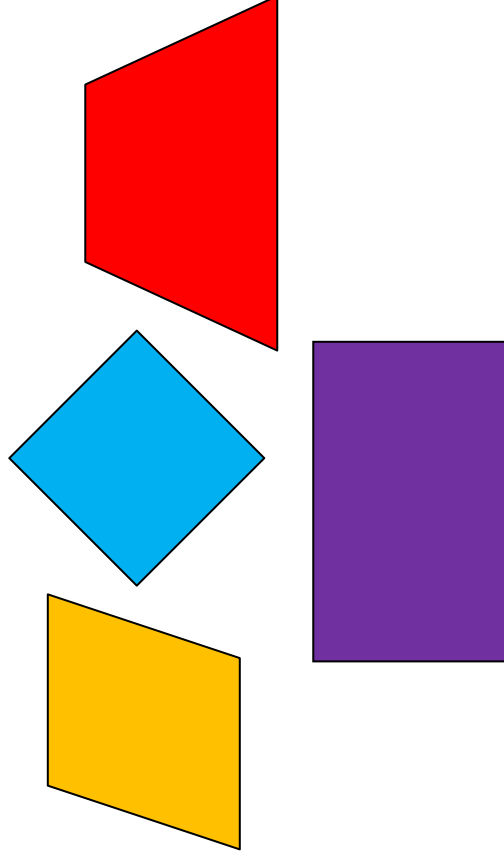

 $5 \times 3 = 15$

product

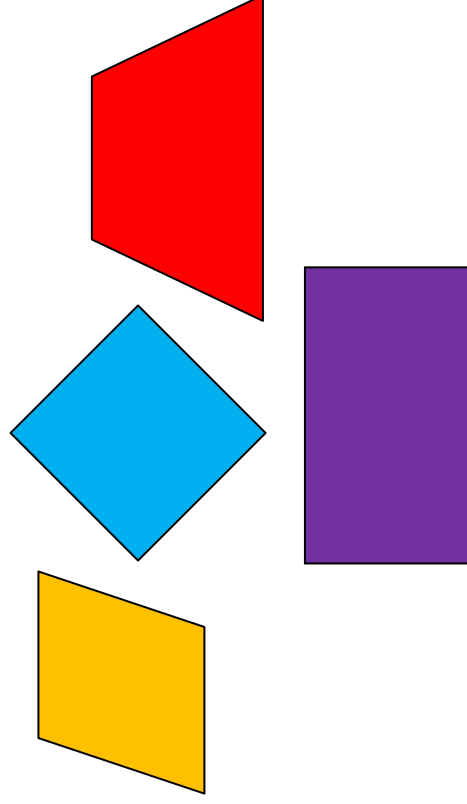

 $5 \times 3 = 15$

The answer to a multiplication problem.

quadrilateral



quadrilateral

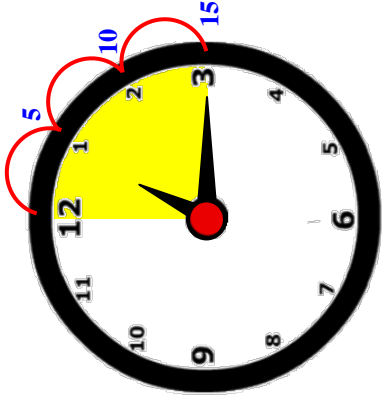


quadrilateral

A four sided polygon.

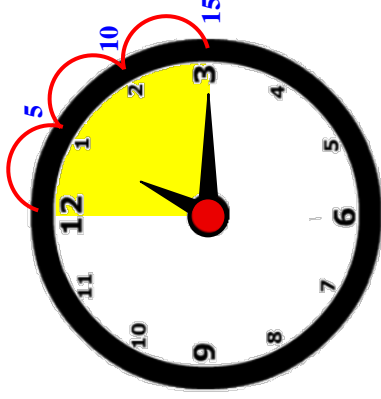
quarter hour

quarter hour



15 minutes = 1 quarter hour

quarter hour



15 minutes = 1 quarter hour

A unit of time
worth 15 minutes.

quotient

quotient

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

quotient

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

The answer to a
division problem.

reasonable

I know that 5 times any number has a 0 or 5 digit in the ones place.
So, C is the only answer that makes sense.

What is the product of 5×8 ?

- A. 12
- B. 13
- C. 40
- D. 58



reasonable

I know that 5 times any number has a 0 or 5 digit in the ones place.
So, C is the only answer that makes sense.

What is the product of 5×8 ?

- A. 12
- B. 13
- C. 40
- D. 58

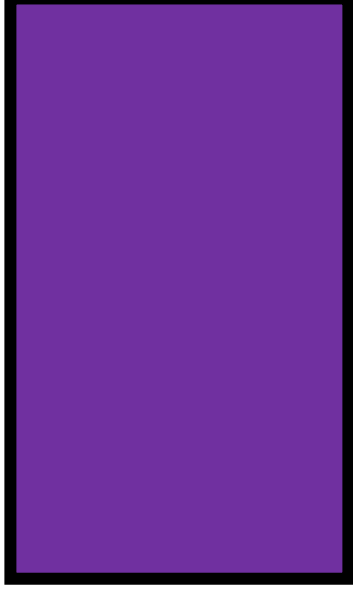


reasonable

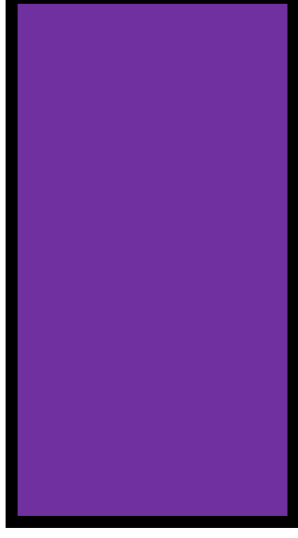
An answer that is based on good number sense.

rectangle

rectangle



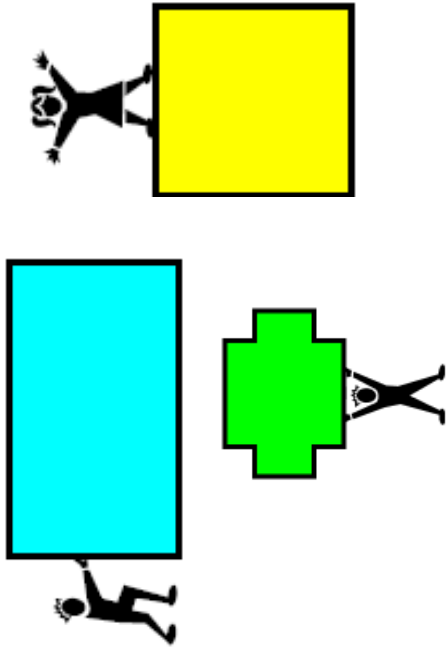
rectangle



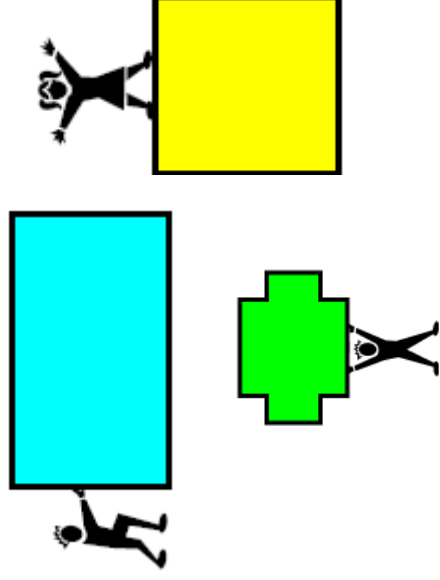
A quadrilateral with two pairs of congruent, parallel sides and four equal angles.

rectilinear figure

rectilinear
figure



rectilinear
figure



A polygon where
all angles are right
angles.

related facts

related facts

Related Facts for 3, 5, 8

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

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

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

Also called *fact family*.

related facts

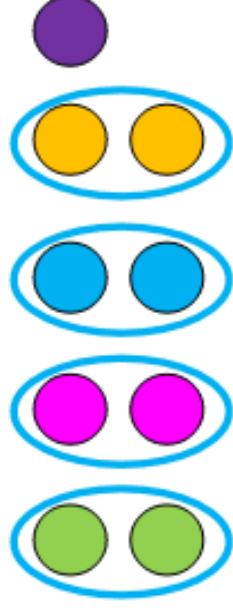
Related Facts for 3, 5, 8

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

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

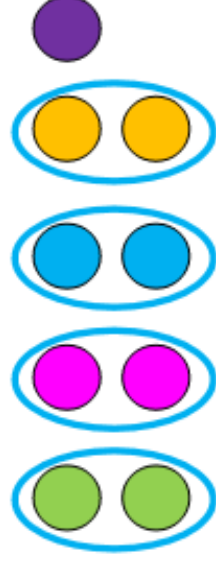
remainder

remainder



$$9 \div 4 = 2 R 1$$

In whole number division, when you have divided as far as you can without using decimals, what has not been divided yet is called the remainder.

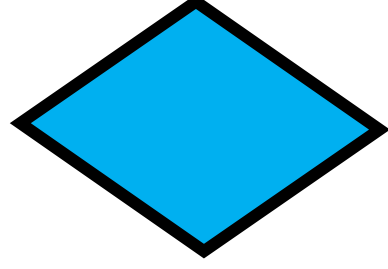
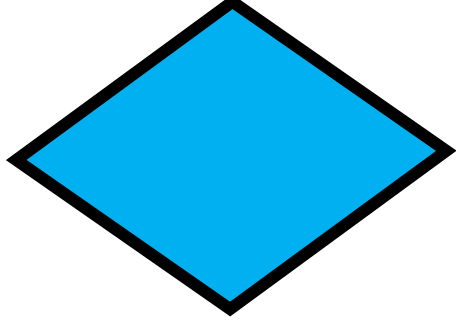


$$9 \div 4 = 2 R 1$$

remainder

rhombus

rhombus

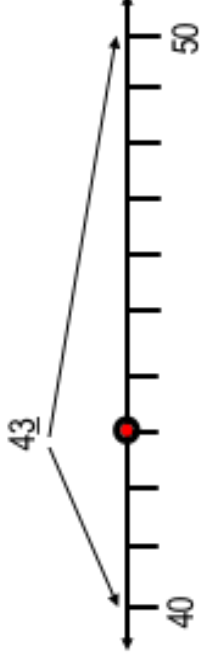
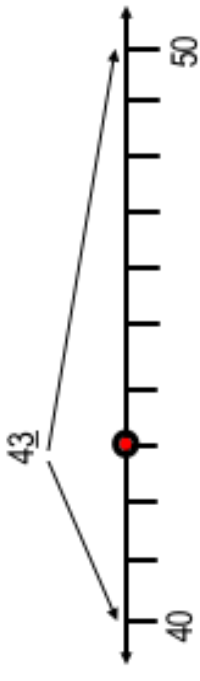


A quadrilateral with all
four sides equal in
length.

rhombus

round a whole number

round a whole number

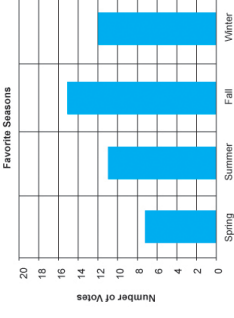


round a whole number

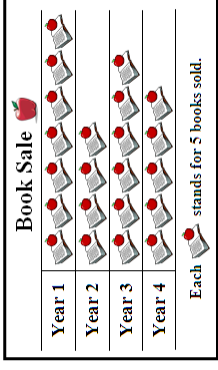
To find the nearest
ten, hundred,
thousand, (and so on).

scale (on a graph)

scale (on a graph)

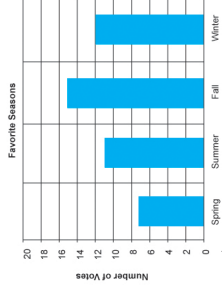


Each square represents 2 votes.

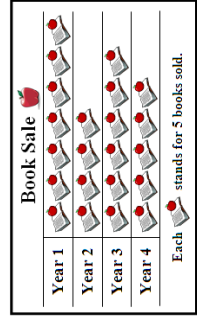


Each picture represents 5 books.

scale (on a graph)



Each square represents 2 votes.



Each picture represents 5 books.

The numbers that show the units used on a graph.

sequence

sequence

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

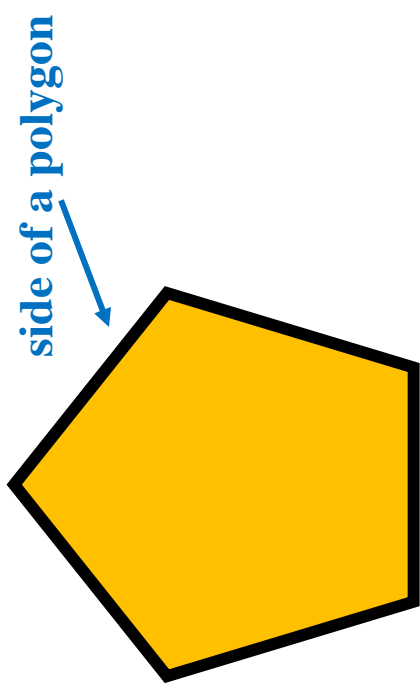
sequence

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

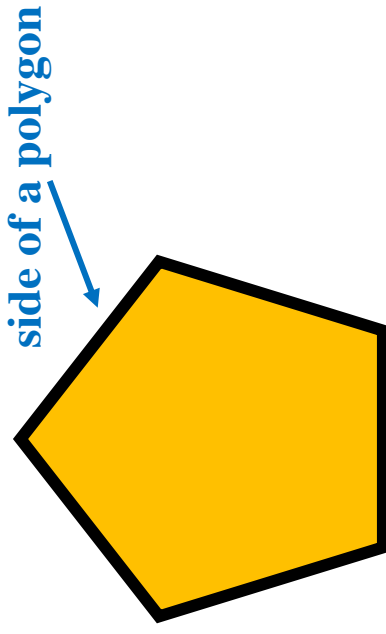
A set of numbers
arranged in a special
order or pattern.

side of a polygon

side of a
polygon

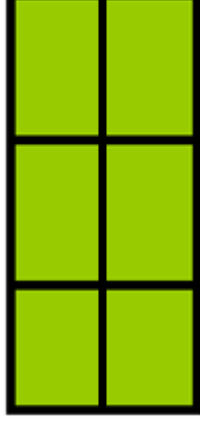
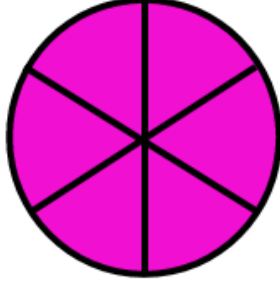


side of a
polygon

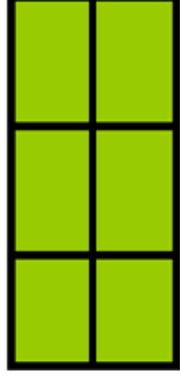
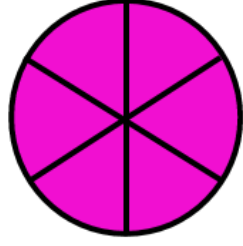


Any of the line
segments that form a
polygon.

sixths



sixths



The parts you get when you divide something into six equal parts.

sixths

square

square

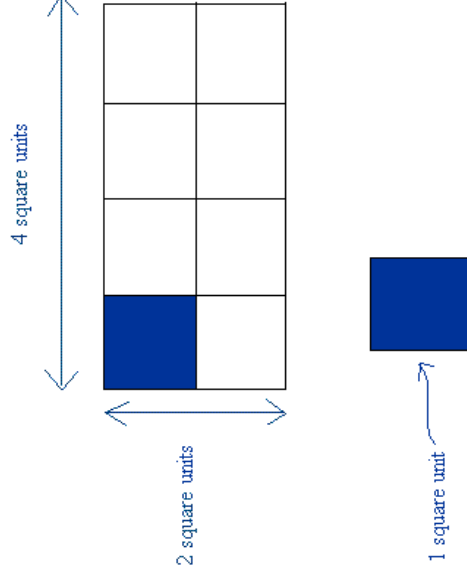


A parallelogram with
four equal angles AND
four equal sides.

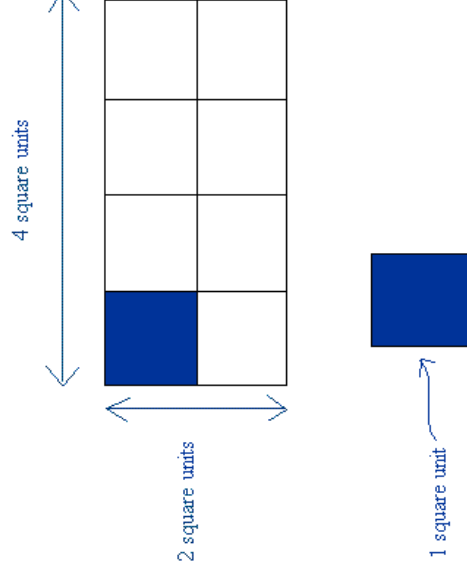
square

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

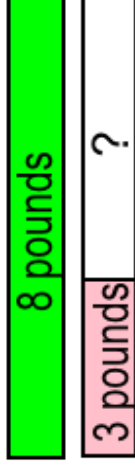
**standard
form**

12,345

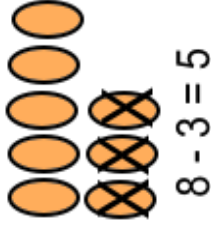
The common or usual way of writing a number using digits. Also called *base-ten numeral form*.

subtract

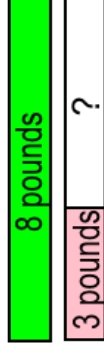
subtract



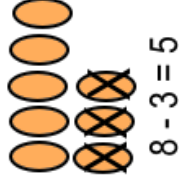
$$8 - 3 = 5$$



subtract



$$8 - 3 = 5$$



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

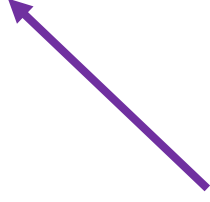
SUM

$$453 + 929 = 1,382$$



sum

$$453 + 929 = 1,382$$



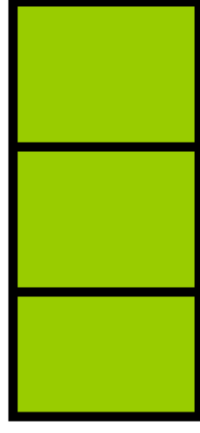
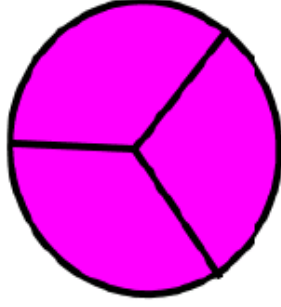
sum

The answer to an addition problem.

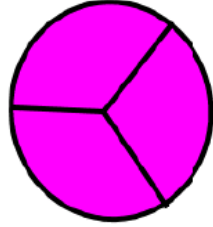
SUM

thirds

thirds



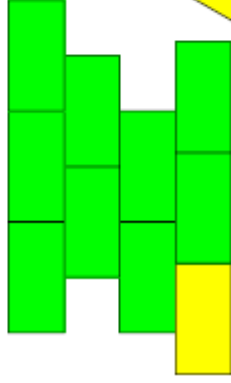
thirds



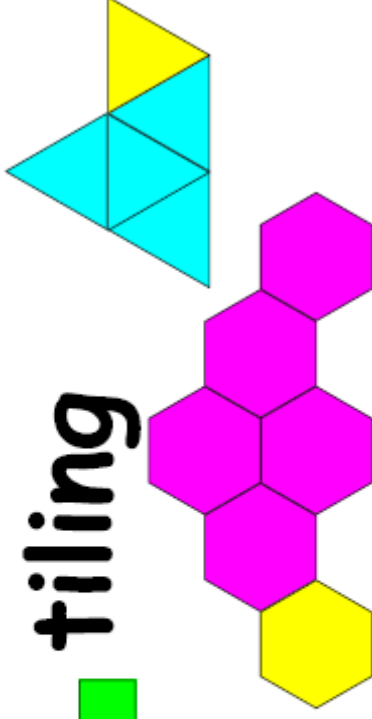
The parts you get when you divide something into 3 equal parts.

tiling

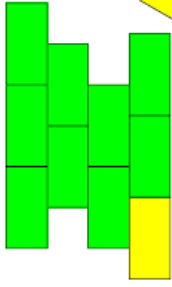
tiling



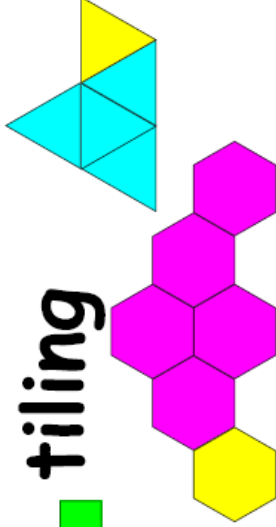
tiling



tiling



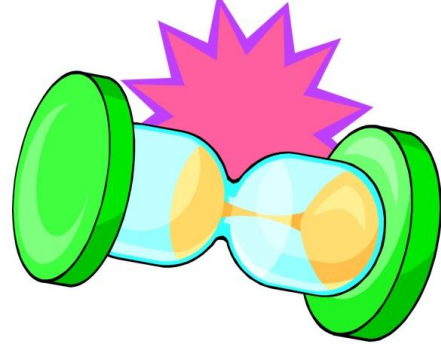
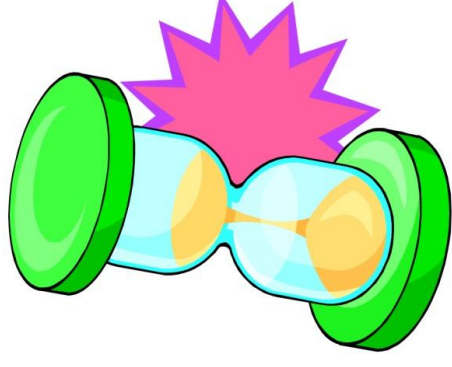
tiling



A pattern of shapes
repeated to fill a plane.
The shapes do not
overlap and there are no
gaps.

time interval

time
interval

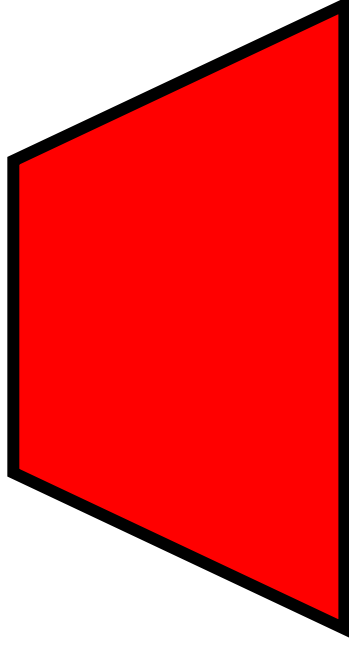


time
interval

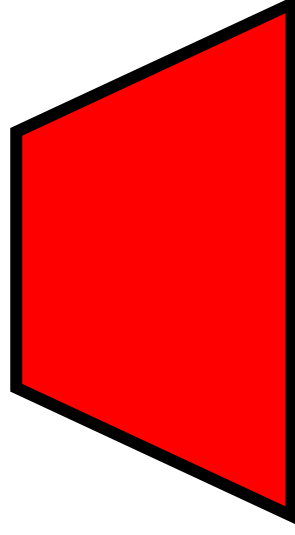
A duration of a
segment of time.
(elapsed time)

trapezoid

trapezoid



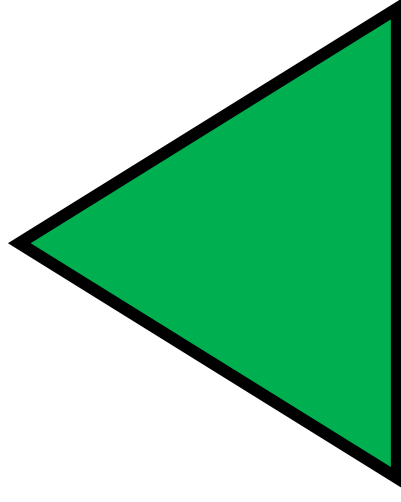
trapezoid



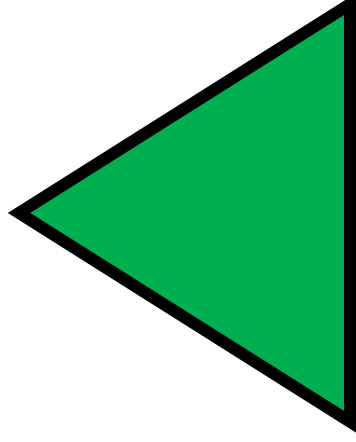
A quadrilateral with one pair of parallel sides and one pair of sides that are not parallel.

triangle

triangle



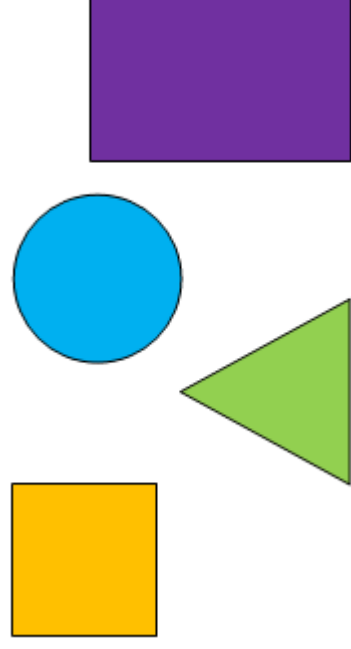
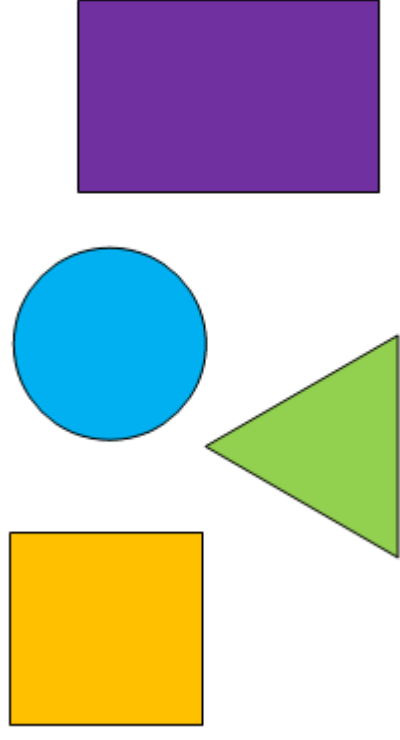
triangle



A polygon with
three sides and three
angles.

two-dimensional

two-dimensional



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

two-dimensional

unit fraction

unit fraction

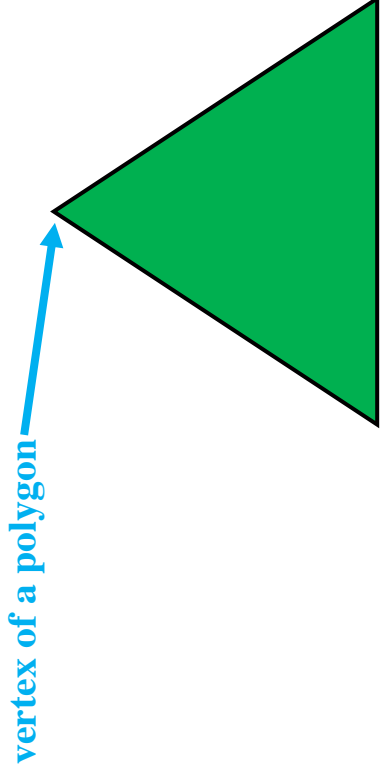
$$\frac{1}{2}$$

unit
fraction

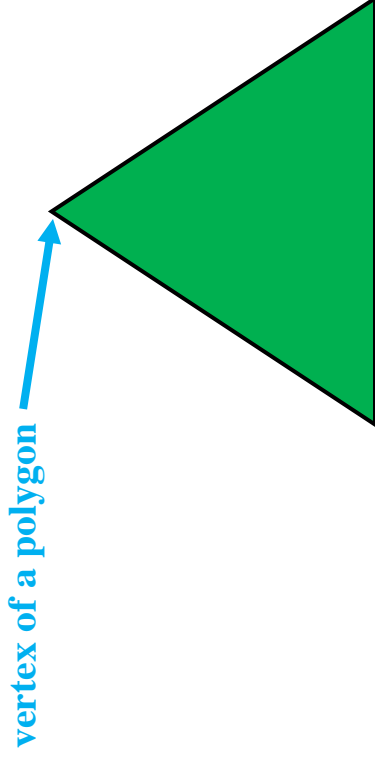
$$\frac{1}{2}$$

A fraction that has
1 as its numerator.

vertex



vertex

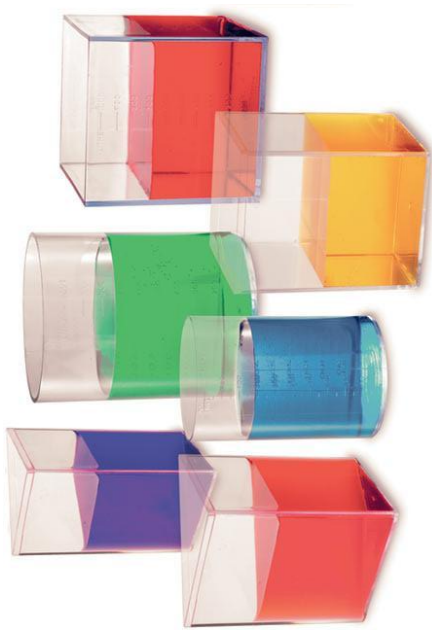


A point at which two or more sides of a geometric figure meet.

Vertices is plural of vertex.

vertex

volume



liquid volume

volume



liquid volume

volume

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

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. Also
called *number
names*.

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.

