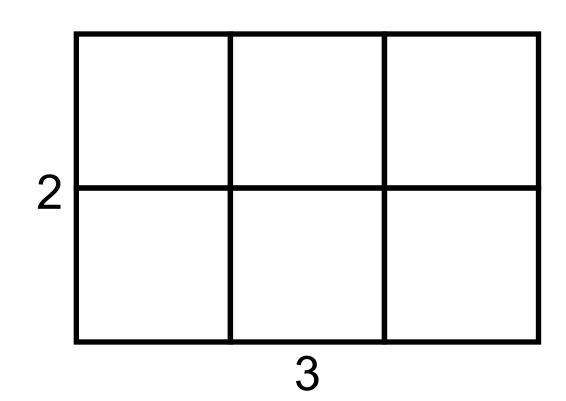
factor

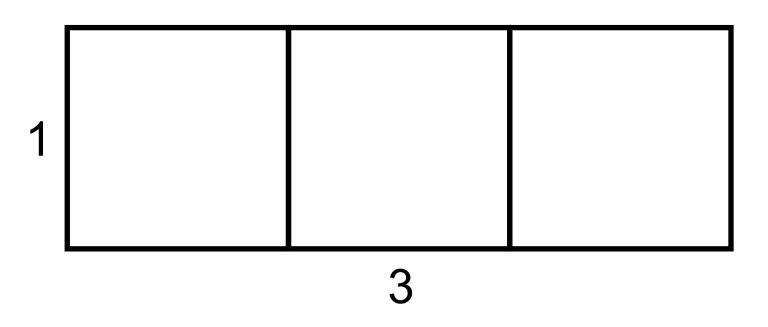
Any whole number that divides into a given number with no remainder.



2 and 3 are factors of 6.

prime number

A whole number with exactly 2 different factors.

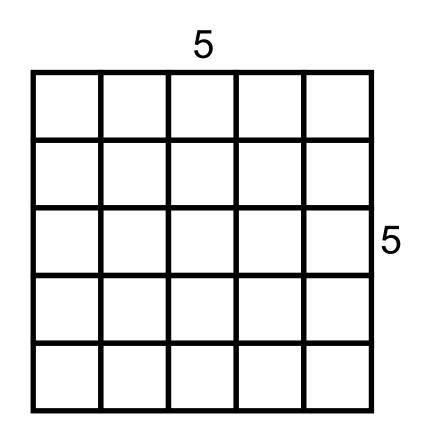


The only factors of 3 are 1 and 3, so 3 is a prime number.

square number

A whole number with 2 factors that can be used as sides of a square.

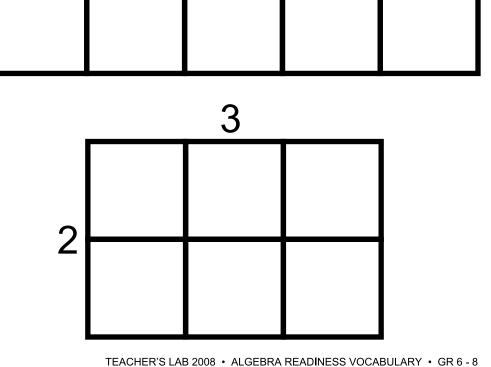
The sides of this square are 5 units long, so 25 is a square number.



composite number

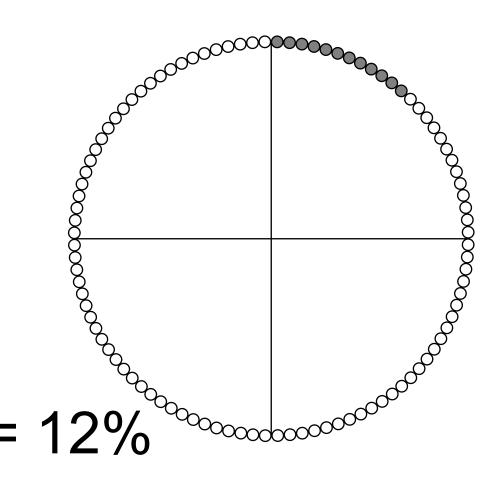
A number with more than 2 factors.

The factors for 6 are 1,2,3, and 6, so 6 is a composite number.



percent

A special ratio that compares a number to 100 using the symbol %.



Twelve of 100 circles are colored in. $\frac{12}{100} = 12\%$

equation

A statement that 2 mathematical expressions are equal.

$$25 + 3 = 28$$
 is an equation.

variable

A symbol that stands for a number. Often, the value of that number can change.

In the expression 2x + 5, x is a variable. When the value of x changes, the value of the expression also changes.

multiple

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

Multiples of 3:

0, 3, 6, 9, 12, 15, ...

Multiples of 5:

0, 5, 10, 15, 20, 25, ...

Distributive Property

If the addends in an expression have a factor in common, the factor can be used to rewrite the expression.

In 2d + 4, 2d and 4 have a common factor of 2. So, 2(d + 2) has the same value as 2d + 4.

expression

A mathematical relationship written in numbers, letters, and operation signs.

Expressions:

$$25 + 3$$
, $2x$, $\frac{1}{2}$

Not expressions:

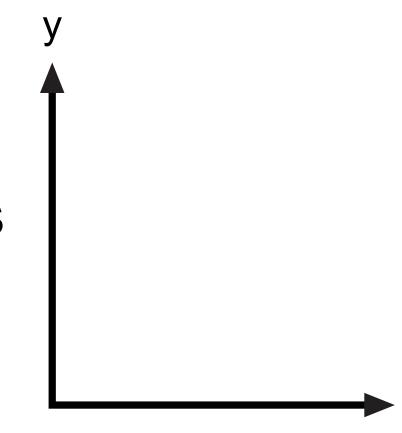
$$25 + 3 = 28, 42 < 54,$$

 $2x = 14$

y-axis

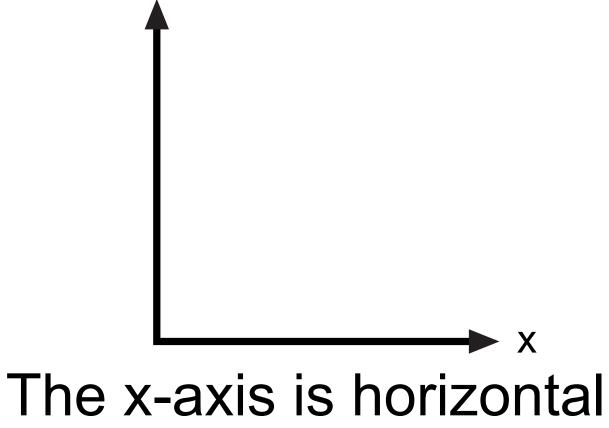
The vertical axis on a coordinate grid.





x-axis

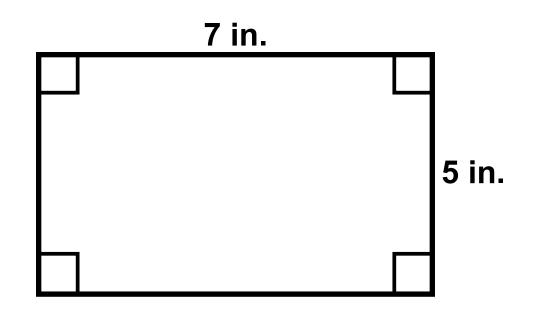
The horizontal axis on a coordinate grid.



TEACHER'S LAB 2008 • ALGEBRA READINESS VOCABULARY • GR 6 - 8

parallel

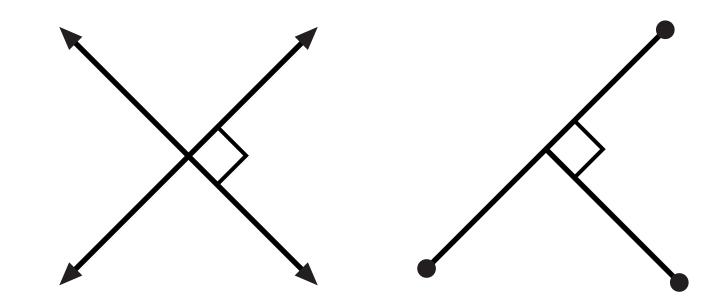
The relationship between lines that are always the same distance apart.



In a rectangle, opposite sides are always the same distance apart, so they are parallel.

perpendicular

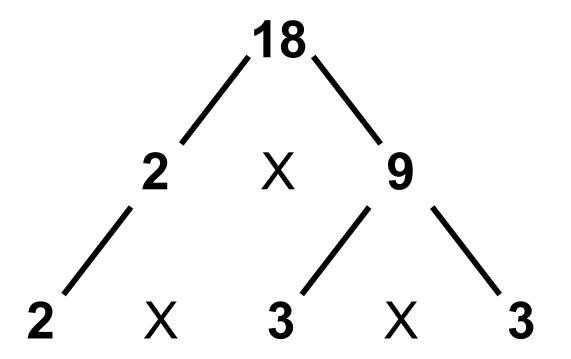
Forming right angles.



Lines and segments that meet or cross at right angles are perpendicular.

prime factorization

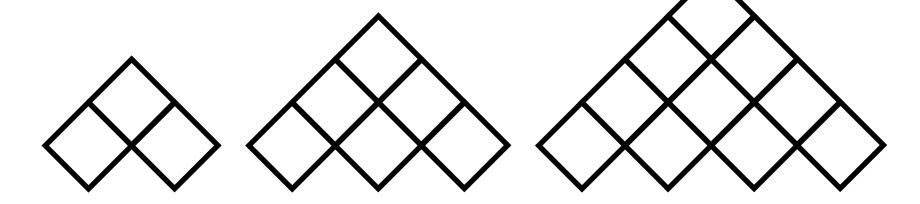
A way to show a number as the product of prime numbers.



The prime factorization of 18 is 2 X 3 X 3, or 2 X 3².

triangular number

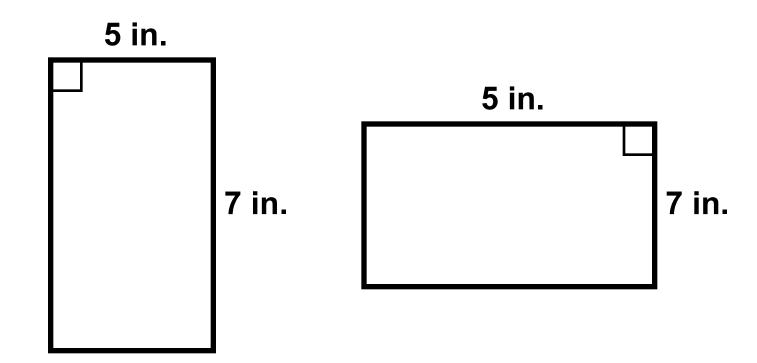
A number that can be diagrammed in an array shaped like a triangle.



3, 6, and 10 are triangular numbers.

congruent

Having exactly the same size and shape.



These rectangles are congruent.

exponent

A number that tells how many times to use another number as a factor.

$$2^3 X 5 = 2 X 2 X 2 X 5$$

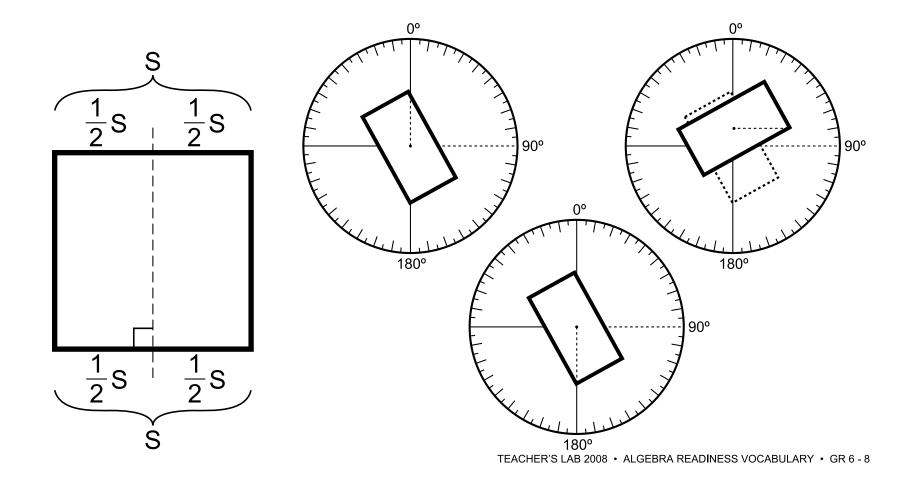
repeating decimal

Division that results in an infinitely repeating sequence of decimal digits.

$$2 \div 3 = 0.66666...$$

symmetry

A figure folded or rotated less than 360° that fits on itself has symmetry. A rectangle has both line and rotational symmetry.



divisible

One number is divisible by another if their quotient is a whole number.

$$6 \div 2 = 3$$

$$6 \div 3 = 2$$

$$6 \div 4 = 1.5$$

6 is divisible by 2 and by 3, but not by 4.

interest

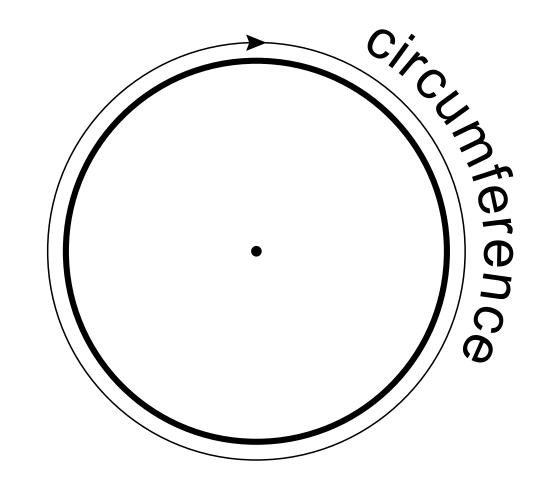
The amount paid to borrow money or earned to lend or deposit money.

$$i = prt$$

If you deposit \$100 for a year at 10% interest per year, you earn \$10 on that deposit.

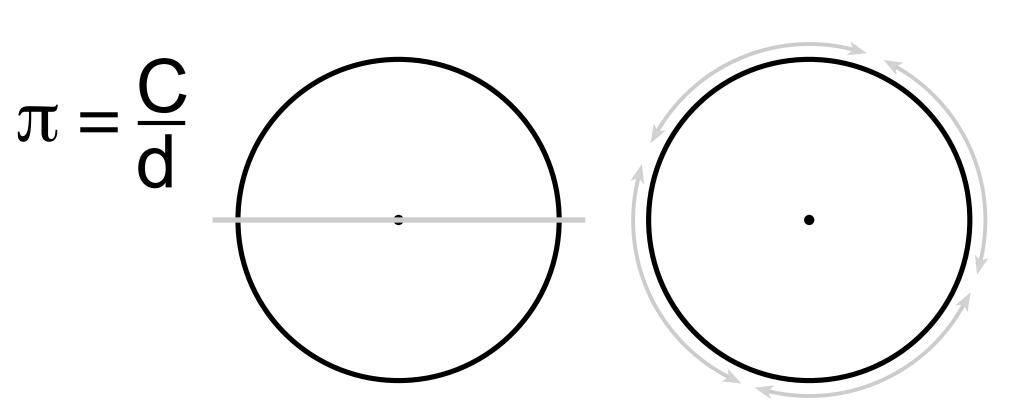
circumference

Distance around a circle.



pi (π)

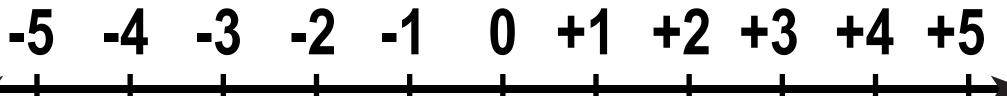
The ratio of the circumference to the diameter of a circle.



The approximate value of π is 3.14.

integer

Whole numbers and their opposites.



+5 and -5 are integers.

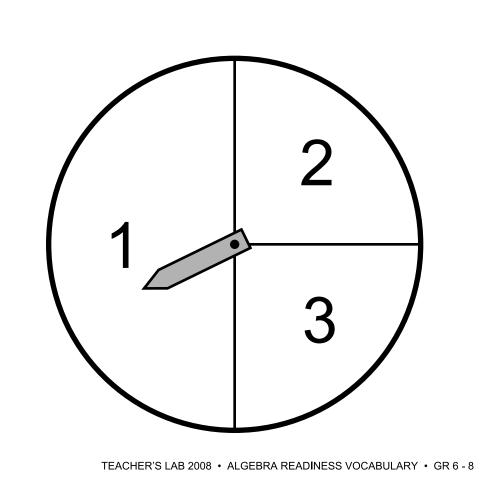
They are the same distance from 0, but in opposite directions.

probability

The likelihood that an event will occur.

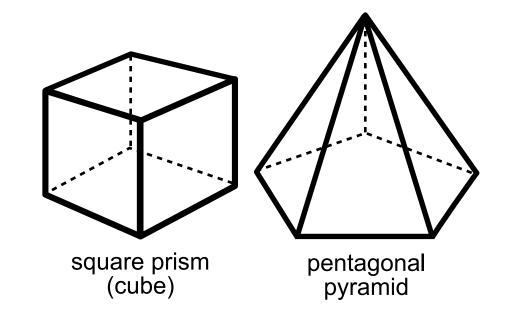
The probability of spinning a 1 is $\frac{1}{2}$.

The probability of spinning a 2 is $\frac{1}{4}$.

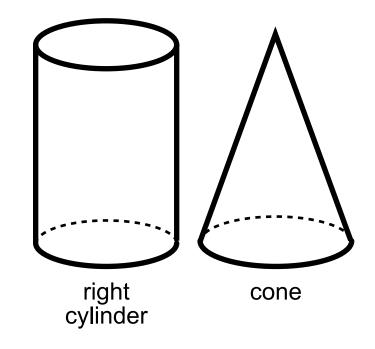


polyhedron

A three-dimensional figure in which all of the faces are polygons. The plural of polyhedron is *polyhedra*.







Not Polyhedra

Fibonacci number

A number from the sequence in which each number is the sum of the 2 previous numbers.

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, ...