NL Math 10: Glossary

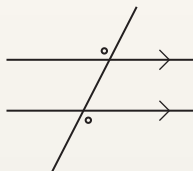February 24, 2011, 16:23

Glossary

A

acute angle
An angle that measures less than 90°.

adjacent side
In a right triangle, the side beside the angle that you are working with.
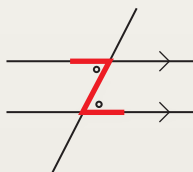
alternate exterior angles
A pair of angles on opposite sides of a transversal and outside the parallel lines. These angles are equal.

alternate interior angles
A pair of angles on opposite sides of a transversal and inside the parallel lines. These angles are equal, and they form a Z pattern.

angle
Formed by two line segments that start from the same point, which is called a vertex. It is measured in degrees, and the symbol for degrees is °.

angle bisector
A line that cuts an angle into two equal pieces.

area
The number of square units needed to cover the surface of a shape. The abbreviation is *A*.

B

bisect
Cut in half.

bonus
An amount of money paid to an employee as a reward for higher sales or a job well done.

C

Celsius
A scale for measuring temperature in which the freezing point of water is 0 °C and the boiling point is 100 °C. The abbreviation is C.

circumference
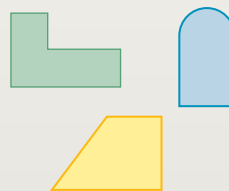The perimeter of a circle. The abbreviation is *C*.

commission
Income based on amount of sales. It is often a percent of the sale price of an item or service.

complementary angles
Two angles that add to 90°. They form a right angle or an L pattern.

composite shape
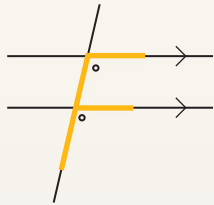A shape made of two or more shapes.

contract
An agreement between an employer and employee. It states that a certain amount of work is to be completed within a set period of time for a set amount of pay.

corresponding angles
A pair of angles on the same side of a transversal crossing the parallel lines. These angles are equal, and they form an F pattern.

corresponding sides
Sides that have the same relative position.

cosine ratio
For an angle in a right triangle, the ratio of the length of the adjacent side to the length of the hypotenuse. The abbreviation for the cosine ratio of ∠A is cos A.

cup
An imperial unit of measure for capacity. The abbreviation sometimes used is c; 1 cup = 8 oz.

D

deduction
An amount of money subtracted from gross pay. Includes income tax, Canada Pension Plan (CPP), and Employment Insurance (EI). Deductions can also include union dues, vacation pay, and health or dental insurance.

diameter
The distance across the centre of a circle. The abbreviation is *d*.

dimensions
Measurements such as the length, width, and height of an object.

E

exchange rate
A rate that specifies how much one currency is worth in terms of the other. Also known as the foreign-exchange rate.

F

Fahrenheit
A scale for measuring temperature in which the freezing point of water is 32 °F and the boiling point is 212 °F. The abbreviation is F.

fluid ounce
An imperial unit of measure for capacity. The abbreviation is fl oz or oz; 128 fl oz = 1 gal.

foot
The basic unit of length in the imperial system. The abbreviation is ft or ′.

G

gallon
An imperial unit of measure for capacity. The abbreviation is gal; 1 gal = 128 fl oz.

gross pay
Total earnings from a salary, hourly wage, or other payment method such as tips.

H

hourly wage
The amount of money paid to a worker per hour worked.

hypotenuse
The longest side of a right triangle. It is located opposite the right angle.

I

imperial system
The system of measurement based on British units.

inch
A unit of length in the imperial system. The abbreviation is in. or ″; 12 inches = 1 foot.

L

leg
One of the two shorter sides that form the right angle.

N

net pay
The amount you receive on a paycheque after deductions have been taken off. Also called take-home pay.

O

obtuse angle
An angle that measures between 90° and 180°.

opposite angles
A pair of equal angles formed by two lines that cross, and form an X pattern. In the diagram, $e = g$ and $f = h$.

opposite side
In a right triangle, the side across from the angle that you are working with.

ounce
An imperial unit of measure for mass. The abbreviation is oz; 16 oz = 1 lb.

overtime
Payment for work done in addition to regular hours. Overtime pay is usually equal to 1.5 times regular pay, but it can be more.

P

parallel lines
Lines that do not cross each other. Two parallel lines are always the same distance apart.

perimeter
The distance around the outside of a shape. The abbreviation is P.

perpendicular lines
Lines that cross each other at right angles. They are often marked with one right angle symbol.

piecework
An amount of money earned per unit of work. A unit of work may be a planted tree, a completed piece of clothing, or a typed article.

polygon
A two-dimensional closed figure.

pound
An imperial unit of measure for mass. The abbreviation is lb; 1 lb = 16 oz.
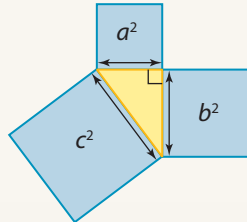
primary trigonometric ratios
The three ratios sine, cosine, and tangent defined in a right triangle.

proportion
An equation that says two rates or ratios are equal. An example is $\frac{1}{4} = \frac{4}{16}$.

Pythagorean relationship
The relationship between the lengths of the sides of a right triangle. The sum of the areas of the squares attached to the legs of a right triangle equals the area of the square attached to the hypotenuse. In the diagram, $a^2 + b^2 = c^2$

Q

quart
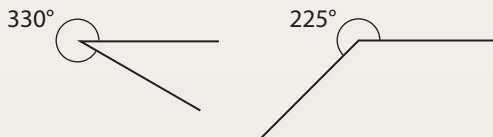An imperial unit of measure for capacity. The abbreviation is qt; 1 qt = 4 cups.

R

rectangular prism
A three-dimensional object in which the six sides are made up of three pairs of rectangles.

reflex angle
An angle that measures more than 180° but less than 360°.

right cylinder
A three-dimensional object that has two parallel circular bases.

right triangle
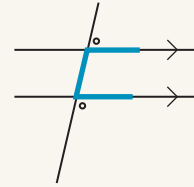A triangle with an angle of 90°.

S

salary
A fixed amount of money paid to a worker on a monthly or annual basis. It does not depend on the number of hours worked.
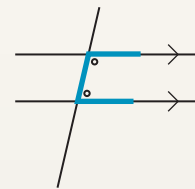
same side exterior angles
A pair of angles on the same side of a transversal and outside the parallel lines. These angles add to 180°, and they form a C pattern.

same side interior angles
A pair of angles on the same side of a transversal and inside the parallel lines. These angles add to 180°, and they form a C pattern.

shift premium
An additional payment made to an employee for working undesirable shifts, such as overnight shifts.

SI (Système international d'unités)
A system of measurement in which units are based on powers of 10. It is also called the metric system of measurement.

similar figures
They have the same shape but different size, equal corresponding angles, and proportional corresponding sides.

sine ratio
For an angle in a right triangle, the ratio of the length of the opposite side to the length of the hypotenuse. The abbreviation for the sine ratio of ∠A is sin A.
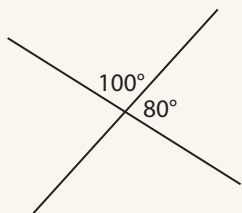
square
A corner that is exactly 90°.

straight angle
An angle that measures exactly 180°.

supplementary angles
Two angles that add to 180° and form a
straight angle.

100°
80°

surface area
The number of square units needed to cover an
object.

T

tangent ratio
For an angle in a right triangle, the ratio of the
length of the opposite side to the length of the
adjacent side. The abbreviation for the tangent
ratio of ∠A is tan A.

transversal
A line that crosses two or more parallel lines.

transversal

U

unit price
The price for one unit of an item. Examples
include $2.25/litre, $5.90/metre, and 50¢/apple.

Y

yard
A unit of length in the imperial system.
The abbreviation is yd; 1 yard = 3 feet.

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