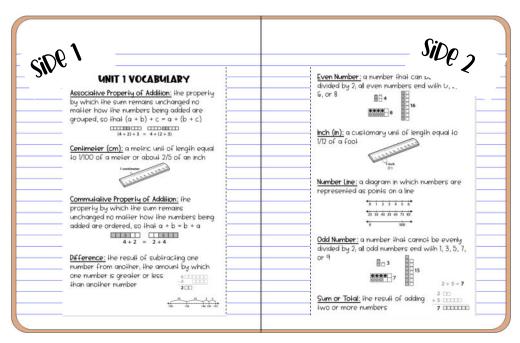
BRIDGES GRADE 3 UNIT VOCABULARY

30 P P 1-1-00 P

Student Notebook Edition for Interactive Notebooks/Journals

TEACHER NOTES:

- This file contains student notebook pages for Bridges Grade 3 Math Units 1-8 vocabulary words.
- These pages are made to fit in any size notebook (composition or spiral). Simply cut on the dotted line and glue on necessary pages inside notebook.



Note: If you want to fit the whole page on a single notebook page, you will need to either print 2 copies per page <u>OR</u> scale the page down to 80%.

Fonts Used:

Headings: AG ADULTISH

Definitions: AG Can You Not

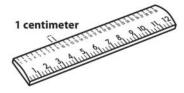


UNIT 1 VOCABULARY

Associative Property of Addition: the property by which the sum remains unchanged no matter how the numbers being added are grouped, so that (a + b) + c = a + (b + c)

$$(4+2)+3 = 4+(2+3)$$

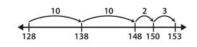
Centimeter (cm): a metric unit of length equal to 1/100 of a meter or about 2/5 of an inch



Commutative Property of Addition: the property by which the sum remains unchanged no matter how the numbers being added are ordered, so that a + b = b + a

<u>Difference:</u> the result of subtracting one number from another; the amount by which one number is greater or less

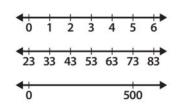
than another number



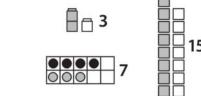
Even Number: a number that can be exactly divided by 2; all even numbers end with 0, 2, 4, 6, or 8

Inch (in): a customary unit of length equal to 1/12 of a foot

<u>Number Line:</u> a diagram in which numbers are represented as points on a line



Odd Number: a number that cannot be evenly divided by 2; all odd numbers end with 1, 3, 5, 7, or 9



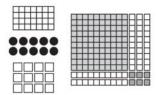
2 + 5 = 7

<u>Sum or Total:</u> the result of adding two or more numbers



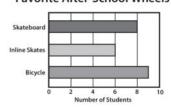
UNIT 2 VOCABULARY

Array: an arrangement consisting of equal rows and equal columns

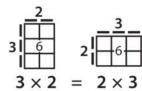


<u>Bar Graph:</u> a graph that uses horizontal or vertical bars to show frequency of data

Favorite After-School Wheels



Commutative Property of Multiplication: the property by which the product remains unchanged no matter how the numbers being multiplied are ordered so that a x b = b x a



Equation: a mathematical statement asserting that two quantities have the same value

$$4 = 2 + 2$$

 $3 + 1 = 4$
 $3 + 1 = 2 + 2$
 $25 + \underline{\hspace{0.5cm}} = 40$
 $50 = a \times 2$

Factor: a whole number that divides evenly into another number 4 16

<u>Multiple:</u> a number that is the product of a given whole number and any other whole number; a number that may be divided by a given number without a remainder; for example 3, 6, and 12 are multiples of 3

$$1 \times 3 = 3$$

$$2 = 3$$

$$2 \times 3 = 6$$

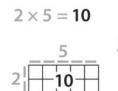
$$3 = 3$$

$$3 \times 3 = 9$$

<u>Picture Graph:</u> a graph that uses pictures or symbols to show frequency of data



<u>Product:</u> the result of multiplying two or more numbers; in the array model, the product is the area of the array





<u>Patio Table:</u> a model that represents _ equivalent ratios; can be used as a tool to solve problems that involve multiplication, division, fractions, and proportions

1	2	3	5
2	4	6	10
	5	15	
	10	30	
	15	45	
	30	90	

<u>Table:</u> a collection of data that has been organized in columns and rows

Birds of Prey

Species	Length (inches)	Wingspan (inches)
Raven	27	50
Hawk	25	53
Kestrel	12	24

<u>Variable</u>: a quantity that can change or have different values; also a symbol (often a letter) that stands for a variable

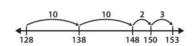
$$x + 3$$

UNIT 3 VOCABULARY

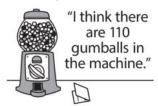
Algorithm: a step-by-step procedure for computing that given the correct result in every case when the steps are carried out correctly

35 × 73 + 165 306 200 7140 7446

<u>Difference:</u> the result of subtracting one number from another; the amount by which one number is greater or less
than another number



<u>Estimate</u>: a close guess of the actual value, usually based on some thought or rough calculation; to make an approximate or rough count, measurement, or calculation



Expanded Form: a way to write a number that shows the place value of each digit

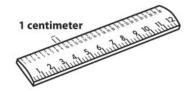
$$349 = 300 + 40 + 9$$

<u>Rounding:</u> approximating a number to a specific place value based on the digit immediately to the right of that place value; for example, rounding \$3.82 to the nearest dollar is \$4 or rounding 63 to the nearest ten is 60 $\frac{$3.82-$4.00}{$3.00}$

Sum or Total: the result of adding two or more numbers 2 + 5 = 7

UNIT 4 VOCABULARY

Centimeter (cm): a metric unit of length equal to 1/100 of a meter or about 2/5 of an inch



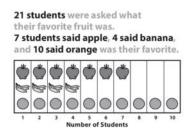
Congruent: of the same shape and size; two shapes are congruent if one can be exactly superimposed onto the other using a sequence of rotations, reflections, and/or translations

<u>Cup:</u> a customary unit of capacity equal to 8 fluid ounces

Customary System: the system of measurement used in the United States; includes units of measuring length, capacity, weight, and temperature



<u>Data:</u> items of information; may include facts, numbers, or measurements



<u>Denominator</u>: the bottom number in a fraction, which shows into how many equal parts the whole is divided; also, the divisor

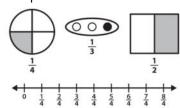
$$\frac{8}{20}$$
 $\frac{5}{3}$ $\frac{1}{2}$ $\frac{3}{4}$

Equation: a mathematical statement asserting that two quantities have the same value

$$4 = 2 + 2$$

 $3 + 1 = 4$
 $3 + 1 = 2 + 2$
 $25 + \underline{\hspace{0.5cm}} = 40$
 $50 = a \times 2$

<u>Fraction:</u> a number expressed as some number of equal parts of a whole

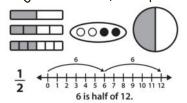


<u>Gallon (gal.):</u> a customary unit of capacity equal to 4 quarts or 16 cups or 128 fluid ounces



Gram (g): a metric unit of mass equal to onethousandth of a kilogram or about the weight of a standard paperclip

<u>Half:</u> one part when a number, shape, or set is divided into exactly two equal parts

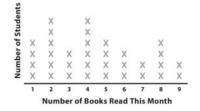


Inch (in): a customary unit of length equal to 1/12 of a foot

<u>Kilogram (kg):</u> a metric unit of mass equal to 1,000 grams or about 2.2 pounds



<u>Line Plot:</u> a horizontal number line that uses markings (such as an X or a dot) to show data points above their values on the line



<u>Liquid Volume:</u> the measure of the amount of liquid a container will hold



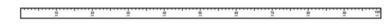
<u>Liter (1):</u> a metric unit of capacity equal to 1,000 milliliters or about a quart



Mass: a measure of the amount of matter in an object measured in grams, kilograms, etc.



Meter (m): a metric unit of length equal to 100 centimeters or about 39 inches



Metric System: a system of measurement

based on tens



Milliliter(ml): a metric unit of capacity Equal to one-thousandth of a liter



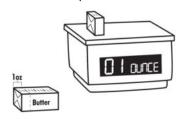
Millimeter (mm): a metric unit of length equal to one-thousandth of a meter and one-tenth of a centimeter



Numerator: the top number of a fraction, which shows how many equal parts are to be counted; also, the dividend

$$\frac{8}{20}$$
 $\frac{5}{3}$ $\frac{1}{2}$ $\frac{3}{4}$

Ounce (oz.): a customary unit of weight equal to one-sixteenth of a pound



Pound (lb.): a customary unit of weight equal to 16 ounces

Quart (qt.): a customary unit of capacity equal to one-fourth of a gallon or 4 cups or 32 fluid ounces

Sum or Total: the result of adding two or more numbers 2+5=7

<u>Table:</u> a collection of data that has been organized in columns and rows

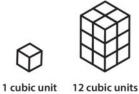
Birds of Prey

Species	Length (inches)	Wingspan (inches)
Raven	27	50
Hawk	25	53
Kestrel	12	24

Unit Fraction: a fraction with a numerator of 1

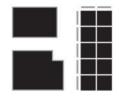
$$\frac{1}{a}$$
 $\frac{1}{814}$ $\frac{1}{3}$ $\frac{1}{23}$

<u>Volume:</u> the total number of cubic units needed to fill a three-dimensional space

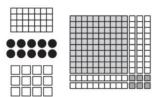


UNIT 5 VOCABULARY

<u>Area:</u> the total number of square units needed to cover a two-dimensional surface



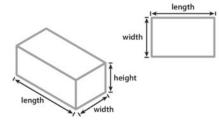
Array: an arrangement consisting of equal rows and equal columns



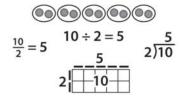
<u>Customary System:</u> the system of measurement used in the United States; includes units of measuring length, capacity, weight, and temperature

<u>Dimension:</u> the length, width, or height of a

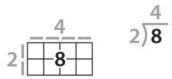
figure



<u>Divide:</u> to break or split into equal parts; to determine how many times one number goes into another



<u>Dividend</u>: the number that will be divided in a division problem $8 \div 2 = 4$



<u>Divisor</u>: the number in a division problem that divides the dividend $8 \div 2 = 4$



Equal: of exactly the same amount or value

$$15 + 25 = 40$$

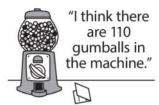
 $100 = 75 + 25$
 $20 + 5 = 30 - 5$
 $3 \times 6 = 36 \div 2$

Equation: a mathematical statement asserting that two quantities have the same value

$$4 = 2 + 2$$

 $3 + 1 = 4$
 $3 + 1 = 2 + 2$
 $25 + \underline{\hspace{0.2cm}} = 40$
 $50 = a \times 2$

Estimate: a close guess of the actual value, usually based on some thought or rough calculation; to make an approximate or rough count, measurement, or calculation

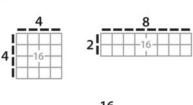


Expression: one or more mathematical symbols that represent a number or quantity; expression do not include equality or inequality signs

31 + 26

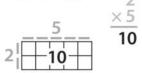
 $45 \div 9$ $(3+4) \times 8$

Factor: a whole number that divides evenly into another number

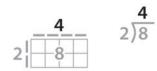


Multiply: to find the product of $3 \times 6 = 18$

<u>Product:</u> the result of multiplying two or more numbers; in the array model, the product is the area of the array $2 \times 5 = 10$

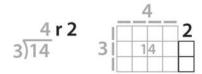


<u>Quotient:</u> the result or answer in division; the number of times one quantity goes into another $8 \div 2 = 4$

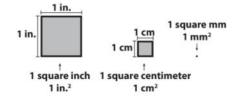


<u>Rectangle:</u> a two-dimensional (flat) shape with two pairs of parallel sides (4 sides total) and 4 right angles

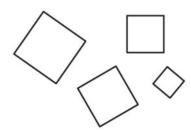
<u>Remainder</u>: the number left over when one whole number is divided by another whole number $14 \div 3 = 4 R2$



Square Unit: a square with sides that measure 1 unit, used to measure area

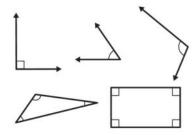


<u>Square:</u> a two-dimensional (flat) shape with 4 congruent sides and 4 right angles

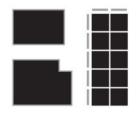


UNIT 6 VOCABULARY

<u>Angle:</u> the figure formed by 2 rays or line segments that share an endpoint; often measured in terms of the amount of rotation (expressed as some number of degrees) needed to superimpose one of those rays or line segments onto the other

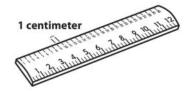


<u>Area:</u> the total number of square units needed to cover a two-dimensional surface



Array: an arrangement consisting of equal rows and equal columns

Centimeter (cm): a metric unit of length equal to 1/100 of a meter or about 2/5 of an inch



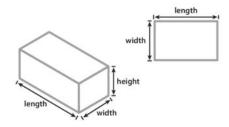
Congruent: of the same shape and size; two shapes are congruent if one can be exactly superimposed onto the other using a sequence of rotations, reflections, and/or translations

<u>Denominator:</u> the bottom number in a fraction, which shows into how many equal parts the whole is divided; also, the divisor

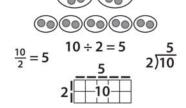


Dimension: the length, width, or height of a

figure



<u>Divide:</u> to break or split into equal parts; to determine how many times one number goes into another



Equal: of exactly the same amount or value

$$15 + 25 = 40$$

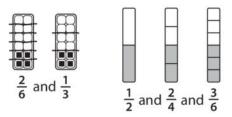
 $100 = 75 + 25$
 $20 + 5 = 30 - 5$
 $3 \times 6 = 36 \div 2$

Equation: a mathematical statement asserting that two quantities have the same value

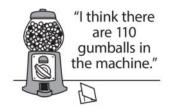
$$4 = 2 + 2$$

 $3 + 1 = 4$
 $3 + 1 = 2 + 2$
 $25 + \underline{\hspace{0.2cm}} = 40$
 $50 = a \times 2$

Equivalent Fractions: two or more different fractions that represent the same quantity

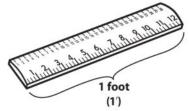


Estimate: a close guess of the actual value, usually based on some thought or rough calculation; to make an approximate or rough count, measurement, or calculation



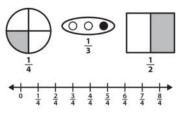
Foot (ft.): a customary unit of length equal to

12 inches

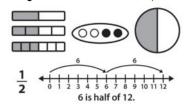


Fraction: a number expressed as some number of equal parts of a

whole



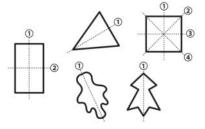
<u>Half:</u> one part when a number, shape, or set is divided into exactly two equal parts



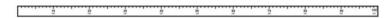
Hexagon: a two-dimensional (flat) shape with 6 sides



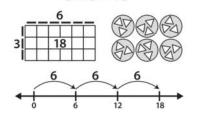
<u>Line of Symmetry:</u> a real or imaginary line that divides a shape into two mirror images



Meter (m): a metric unit of length equal to 100 centimeters or about 39 inches



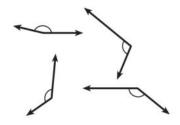
Multiply: to find the product of $3 \times 6 = 18$



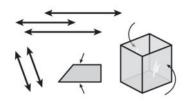
Numerator: the top number of a fraction, which shows how many equal parts are to be counted; also, the dividend 8 5

 $\frac{1}{2}$ $\frac{3}{4}$

Obtuse Angle: angle with a measure great than 90° and less than 180°



Parallel: always the same distance apart



<u>Parallelogram:</u> a two-dimensional (flat) shape with 4 sides, with both pairs of opposite sides parallel

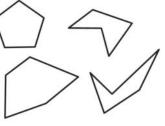
<u>Pattern:</u> a collection of numbers, shapes, or objects that forms a consistent or characteristic arrangement

2, 4, 6, 8, 10, 12 ...

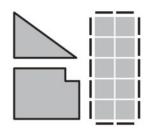
5, 10, 15, 20, 25 ...

Pentagon: a two-dimensional (flat) shape with

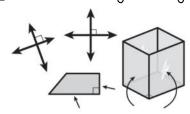
5 sides



<u>Perimeter:</u> the distance in linear units around a two-dimensional (flat) figure; the perimeter of a circle is called the circumference



Perpendicular: intersecting at right angles

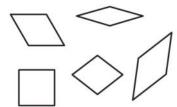


<u>Polygon:</u> a closed two-dimensional (flat) shape with 3 or more sides

Quadrilateral: a two-dimensional (flat) shape with 4 sides

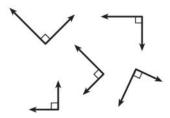
<u>Rectangle:</u> a two-dimensional (flat) shape with two pairs of parallel sides (4 sides total) and 4 right angles

<u>Phombus:</u> a two-dimensional (flat) shape with 4 congruent sides

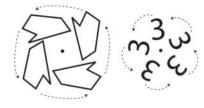


<u>Pight Angle:</u> an angle with a measure of

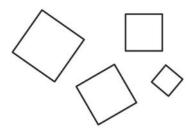
exactly 90°



Rotation: a turn of a geometric figure



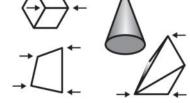
<u>Square:</u> a two-dimensional (flat) shape with 4 congruent sides and 4 right angles



Symmetry: the property of a shape that can be folded so that the two halves match exactly

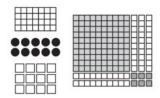
<u>Trapezoid</u>: a two-dimensional (flat) shape with 4 sides, exactly 1 pair of which are parallel

Vertex or Corner: the point at which the sides of a two-dimensional (flat) shape or the edges of a three-dimensional shape (solid) intersect

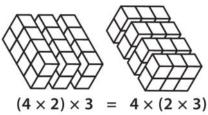


UNIT 7 VOCABULARY

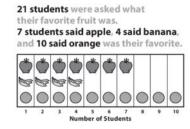
Array: an arrangement consisting of equal rows and equal columns



Associative Property of Multiplication: the property by which the product remains unchanged no matter how the numbers being multiplied are grouped, so that $(a \times b) \times c = a \times (b \times c)$



<u>Data:</u> items of information; may include facts, numbers, or measurements

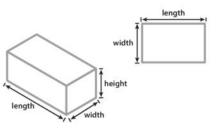


<u>Denominator</u>: the bottom number in a fraction, which shows into how many equal parts the whole is divided; also, the divisor

$$\frac{8}{20}$$
 $\frac{5}{3}$ $\frac{3}{4}$

<u>Dimension:</u> the length, width, or height of a

figure



<u>Divide:</u> to break or split into equal parts; to determine how many times one number goes into another

$$\frac{10}{2} = 5$$

$$2 = 5$$

$$10 \div 2 = 5$$

$$2 = 5$$

$$2 = 5$$

Equal: of exactly the same amount or value

$$15 + 25 = 40$$

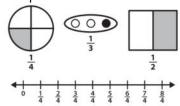
 $100 = 75 + 25$
 $20 + 5 = 30 - 5$
 $3 \times 6 = 36 \div 2$

Equation: a mathematical statement asserting that two quantities have the same value

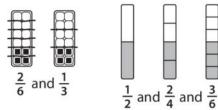
$$4 = 2 + 2$$

 $3 + 1 = 4$
 $3 + 1 = 2 + 2$
 $25 + \underline{\hspace{0.5cm}} = 40$
 $50 = a \times 2$

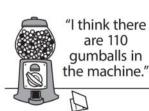
Fraction: a number expressed as some number of equal parts of a whole



Equivalent Fractions: two or more different fractions that represent the same quantity



Estimate: a close guess of the actual value, usually based on some thought or rough calculation; to make an approximate or rough count, measurement, or calculation

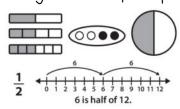


Expression: one or more mathematical symbols that represent a number or quantity; expression do not include equality or inequality 31 + 26signs $45 \div 9$ $(3 + 4) \times 8$

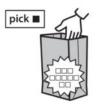
Factor: a whole number that divides evenly into another number

Foot (ft.): a customary unit of length equal to 12 inches

Half: one part when a number, shape, or set is divided into exactly two equal parts

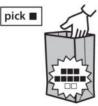


Impossible: will definitely not occur

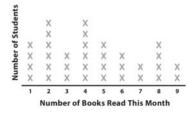


Likely: had more than a 50% change of

occurring



<u>Line Plot:</u> a horizontal number line that uses markings (such as an X or a dot) to show data points above their values on the line



Mode: the value (or values) that appear most often in a set of data; there may be no mode, one mode, or multiple modes in a single set of data

4 6 7 8 (11 11) 13

Multiple: a number that is the product of a given whole number and any other whole number; a number that may be divided by a given number without a remainder; for example 3, 6, and 12 are multiples of 3

$$1 \times 3 = 3$$

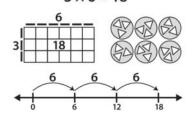
$$2 = 3$$

$$2 \times 3 = 6$$

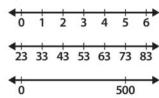
$$3 = 3$$

$$3 \times 3 = 9$$

Multiply: to find the product of $3 \times 6 = 18$



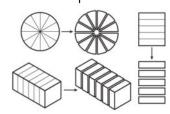
<u>Number Line:</u> a diagram in which numbers are represented as points on a line



<u>Numerator:</u> the top number of a fraction, which shows how many equal parts are to be counted; also, the dividend $\frac{8}{20}$

<u>Parentheses:</u> curved marks used to group mathematical symbols (

Partition: to divide into portions or pieces



<u>Pattern:</u> a collection of numbers, shapes, or objects that forms a consistent or characteristic arrangement

2, 4, 6, 8, 10, 12 ...



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

Probability: the likelihood that an event will occur, measured on a scale from 0 (impossible) to 1 (certain)

3 0

<u>Product:</u> the result of multiplying two or more numbers; in the array model, the product is the area of the array $2 \times 5 = 10$

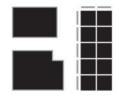
$$\begin{array}{c|c}
 & \times & 5 \\
2 & 10 \\
\end{array}$$

Unit Fraction: a fraction with a numerator of 1

$$\frac{1}{a}$$
 $\frac{1}{814}$ $\frac{1}{3}$ $\frac{1}{2}$

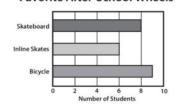
UNIT 8 VOCABULARY

<u>Area:</u> the total number of square units needed to cover a two-dimensional surface

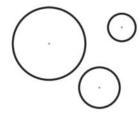


<u>Bar Graph:</u> a graph that uses horizontal or vertical bars to show frequency of data

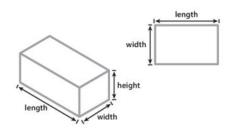
Favorite After-School Wheels



<u>Circle:</u> a two-dimensional (flat) shape made by drawing a curve that is always the same distance from a point called the center

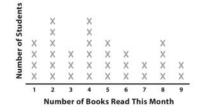


<u>Dimension:</u> the length, width, or height of a figure



Hexagon: a two-dimensional (flat) shape with 6 sides

<u>Line Plot:</u> a horizontal number line that uses markings (such as an X or a dot) to show data points above their values on the line



Mean: the sum of all numbers in a data set divided by the number of data points; typically called the "average"

Median: the middle value of an ordered set of numerical data; in a set with an even number of data points, the median is the average of the two middle points

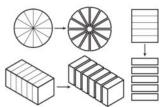
4 6 7 **8** 8 11 13

Mode: the value (or values) that appear most often in a set of data; there may be no mode, one mode, or multiple modes in a single set of data 4 6 7 8 (11 11) 13

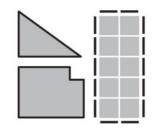
Outlier: a value in a set that is much higher or much lower in value than other numbers in the set

<u>Parallelogram:</u> a two-dimensional (flat) shape with 4 sides, with both pairs of opposite sides parallel

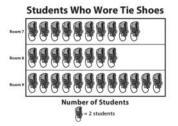
<u>Partition</u>: to divide into portions or pieces



<u>Perimeter:</u> the distance in linear units around a two-dimensional (flat) figure; the perimeter of a circle is called the circumference

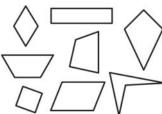


<u>Picture Graph:</u> a graph that uses pictures or symbols to show frequency of data



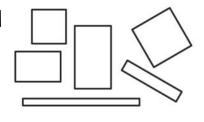
Quadrilateral: a two-dimensional (flat) shape

with 4 sides

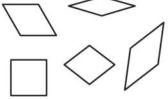


<u>Range:</u> the difference between the greatest and least values in a data set

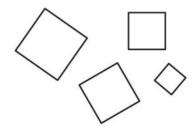
Rectangle: a two-dimensional (flat) shape with two pairs of parallel sides (4 sides total) and 4 right angles



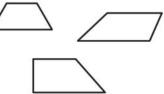
<u>Rhombus:</u> a two-dimensional (flat) shape with 4 congruent sides



<u>Square</u>: a two-dimensional (flat) shape with 4 congruent sides and 4 right angles



<u>Trapezoid</u>: a two-dimensional (flat) shape with 4 sides, exactly 1 pair of which are parallel



<u>Triangle:</u> a two-dimensional (flat) shape with 3 sides

ADDITIONAL VOCABULARY

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