## Vocabulary Cards and Word Walls

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## 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:
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## absolute value

# absolute <br> $$
|-5|=5
$$ <br> value 

## absolute

 value$$
|-5|=5
$$

The distance of a number from zero on the number line. Always positive.

## acute triangle

## acute triangle <br> 

## acute triangle



A triangle with no angle measuring $90^{\circ}$ or more.

## addend

## $33+4.7+0.9=38.6$ <br> addend


addends

## Additive Identity Property of 0

## Additive Identity Property of 0

## $\mathbf{a}+0=\mathbf{a}$

Additive Identity Property of 0

Adding zero to a number gives a sum identical to the given number.

## additive inverses

## additive inverses $5+(-5)=0$

## additive inverses $5+(-5)=0$

Two numbers whose sum is 0 are additive inverses of one another.

## algebraic expression

## algebraic expression



algebraic expression



A group of numbers, symbols, and variables that express an operation or a series of operations.

## algorithm

## Partial Product Example

algorithm<br>555<br>\(\begin{array}{r}\mathrm{x} 7<br>\hline 35\end{array}\)<br>350<br>3500<br>3885<br>Step 1: Multiply the ones.<br>Step 2: Multiply the tens.<br>Step 3: Multiply the hundreds.<br>Step 4: Add the partial products.

## Partial Product Example

555<br>algorithm

A step-by-step method for computing.

## altitude

## altitude



## altitude



The perpendicular distance from a vertex to the opposite side of a plane figure.

## area

## $\mathbf{2}$ rows of $\mathbf{5}=\mathbf{1 0}$ square units or $2 \times 5=10$ square units <br> 

2 rows of $5=10$ square units or
$2 \times 5=10$ square units
area


The measure, in square units, of the interior region of a 2-dimensional figure or the surface of a
3-dimensional figure.

# Associative Property of Addition 

Associative Property of Addition
$(5+7)+3=5+(7+3)$
$12+3=5+10$
$15=15$

Associative
Property of Addition

$$
\begin{aligned}
(5+7)+3 & =5+(7+3) \\
12+3 & =5+10 \\
\mathbf{1 5} & =\mathbf{1 5}
\end{aligned}
$$

The sum stays the same when the grouping of addends is changed. $(a+b)+c=a+(b+c)$, where $a, b$, and $c$ stand for any real numbers.

## Associative Property of

 Multiplication
## Associative Property of Multiplication

$$
\begin{aligned}
(5 \times 7) \times 3 & =5 \times(7 \times 3) \\
35 \times 3 & =5 \times 21 \\
105 & =105
\end{aligned}
$$

## Associative <br> Property of Multiplication

The product stays the same when the grouping of factors is changed. ( $a \times b$ ) $\mathrm{x} c=a \mathrm{x}(b \mathrm{x} c)$, where $a, \mathrm{~b}$, and c stand for any real numbers.

## attribute

## large <br> attribute <br> triangle <br> pink

## large

attribute
triangle
A characteristic.
e.g. size, shape or color

## axis



## axis

A reference line from which distances or angles are measured in a coordinate grid.
(plural - axes)

## base of a polygon

# base of a polygon 



## box plot

## box plot

A diagram that shows the five number summary of a

## box plot

 distribution. (Five number summary includes lowest value, lower quartile, median, upper quartile, and highest value.)

## cluster

## cluster

Hours Watching TV In One Week


Hours Watching TV In One Week


A group of the same or similar elements gathered or occurring closely together on a graph.

## coefficient

## $5 x+3$ <br>  <br> coefficient

# $5 x+3$ coefficient <br>  <br> coefficient 

## common denominator

common

## denominator

12 is a common denominator for
$\frac{2}{3}$ and $\frac{3}{4}$

12 is a common denominator for
$\frac{2}{3}$ and $\frac{3}{4}$

For two or more fractions, a common denominator is a common multiple of the denominators.

## common factor

## common <br> factor

Common Factors of 12 and 18:
1, 2, 3, 6
common factor

$$
\begin{aligned}
& 12(1,2,3,4,6,12) \\
& 18(1,2,3,6,9,18)
\end{aligned}
$$

Common Factors of 12 and 18:

$$
1,2,3,6
$$

Any common factor of two or more numbers.

# common multiple 

## common

 multiple$4,8,12,16,20,24,28,32,36 \ldots$ 6, 12, 18, 24, 30, 36, 42...

Common Multiples of 4 and 6: 12, 24, 36...

# common multiple 

4, 8, 12, 16, 20, 24, 28, 32, 36... 6, 12, 18, 24, 30, 36, 42...

Any common multiple of two or more numbers.
Common Multiples of 4 and 6: 12, 24, 36...

## Commutative Property of Addition

## Commutative Property of Addition <br> $5+3=3+5$

## Commutative Property of <br> $5+3=3+5$ Addition

The sum stays the same when the order of the addends is changed. $a+b=b+a$, where $a$ and $b$ are any real numbers.

## Commutative Property

## of Multiplication

Commutative
Property of $4 \times 7=7 \times 4$ Multiplication

Commutative
Property of $4 \times 7=7 \times 4$ Multiplication

The product stays the same when the order of the factors is changed.
$a \times b=b \times a$, where $a$ and $b$ are any real numbers.

## compose

## 2 triangles can form a rectangle.

## compose



2 triangles can form a rectangle.

## compose



To put together, as in numbers or shapes.

## constant

## constant

# $5 x+4$ 7 <br> constant 

# $5 x+4$ <br> , 

A number with a value that is always the same.

## constant speed

## constant speed


constant speed


Movement at a fixed (constant) distance per unit of time.

## coordinate pair

## coordinate pair

$(-5,2)$
$(x, y)$

## coordinate pair <br> $(-5,2)$ <br> $(x, y)$

A pair of numbers that gives the coordinates of a point on a grid in this order (horizontal coordinate, vertical coordinate). Also known as an ordered pair.

## coordinate plane

## coordinate

 plane

## coordinate plane



A 2-dimensional system in which the coordinates of a point are its distances from two intersecting, usually perpendicular, straight lines called axes.
(Also called coordinate grid or coordinate system.)

## coordinate system

# coordinate system 



## coordinate system



Also known as a coordinate grid. A 2-dimensional system in which the coordinates of a point are its distances from two intersecting, usually perpendicular, straight lines called axes.

## coordinates

## coordinates

(3,-5)
$(x, y)$
coordinates

$(x \quad, \quad y)$
An ordered pair of numbers that
identify a point on a coordinate plane.

## cube

## cube




A rectangular solid having six congruent square faces.

## customary system


customary system

A system of measurement used in the U.S. The system includes units for measuring length, capacity, and weight.

## data

## data

| Number of School Carnival <br> Tickets Sold |  |
| :---: | :---: |
| Kindergarten | 22 |
| $1^{\text {st } \text { Grade }}$ | 15 |
| $2^{\text {nd }}$ Grade | 34 |
| $3^{\text {rd }}$ Grade | 9 |
| $4^{\text {th }}$ Grade | 16 |
| $5^{\text {th }}$ Grade | 29 |
| $6^{\text {th }}$ Grade | 11 |

## data

| Number of School Carnival <br> Tickets Sold |  |
| :---: | :---: |
| Kindergarten | 22 |
| $1^{\text {st }}$ Grade | 15 |
| $2^{\text {nd }}$ Grade | 34 |
| $3^{\text {rd }}$ Grade | 9 |
| $4^{\text {th }}$ Grade | 16 |
| $5^{\text {th }}$ Grade | 29 |
| $6^{\text {th }}$ Grade | 11 |

Information, especially numerical information.
Usually organized for analysis.

## decompose

## decompose


decompose


To separate into components or basic elements.

## denominator

## denominator



## denominator



The quantity below the line in a fraction. It tells the number of equal parts into which a whole is
divided.

## dependent variable

## dependent variable

dependent variable


In a function, a variable whose value is determined by the value of the related independent variable.

## difference

## difference

## $49.75-13.9=35.85$ <br>  <br> difference

# $49.75-13.9=35.85$ difference 

The amount that remains after one quantity is
subtracted from another.

## distribution

## distribution

| Age of People Attending a Movie |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Age Ranges | Tally | Frequency |  |  |
| $0-9$ | I I I | 3 |  |  |
| $10-19$ | I I I | 4 |  |  |
| $20-29$ | I I I I I | 6 |  |  |
| $30-39$ | I I I I I I | 8 |  |  |
| $40-49$ |  | 0 |  |  |
| $50-59$ | I | 1 |  |  |
| $60-69$ |  |  |  |  |
|  |  |  |  |  |

## distribution

| Age of People Attending a Movie |  |  |  |
| :---: | :---: | :---: | :---: |
| Age Ranges | Tally | Frequency |  |
| $0-9$ | I I I | 3 |  |
| $10-19$ | I I I | 4 |  |
| $20-29$ | I I I I I | 6 |  |
| $30-39$ | I I I I I I I | 8 |  |
| $40-49$ |  | 0 |  |
| $50-59$ | I | 1 |  |
| $60-69$ |  |  |  |
|  |  |  |  |

A table that shows how many there are of each type of data.

## Distributive Property

## Distributive

Example:

$$
5(6+8)=(5 \times 6)+(5 \times 8)
$$

Property

Distributive Property

Example:

$$
5(6+8)=(5 \times 6)+(5 \times 8)
$$

$$
\begin{gathered}
a \times(b+c)=(a \times b)+(a \times c) \\
\text { and } \\
a \times(b-c)=(a \times b)- \\
(a \times c), \text { where } a, b, \text { and } c \text { stand } \\
\text { for any real numbers. }
\end{gathered}
$$

## dividend

# dividend 

## dividend

A quantity to be divided.

## divisor

## divisor

## $\overbrace{\text { divisor }}^{875}$

## divisor

The quantity by which another quantity is to be divided.

## dot plot

## dot plot



## dot plot

Also known as a line plot. A diagram showing frequency of data on a number line.

## double number line diagram

## double number line diagram



## double number line diagram



A graphic diagram that shows a proportional relationship between two quantities.

## equation

## equation

## $9 \times 3=20+7$

equation

$9 \times 3=20+7$
A statement that two mathematical expressions are equal.

## equilateral triangle

# equilateral triangle 

## equilateral triangle



A triangle whose sides are all the same length.

## equivalent

## $9+12=1+20$

## equivalent



## equivalent

$9+12=1+20$


Naming the same
number.

## equivalent ratio

# equivalent ratio <br> $$
\frac{6}{12}=\frac{2}{4}
$$ <br> Both ratios simplify to $\frac{1}{2}$. 

equivalent ratio


Both ratios simplify to $\frac{1}{2}$.

If two ratios have the same value when simplified, then they are called equivalent ratios.

## evaluate

## $42-13=n$ <br> evaluate

$$
n=29
$$

## $42-13=n$

evaluate
To find the value of a mathematical expression.

$$
n=29
$$

## exponent

## exponent



## exponent



The number that tells how many equal factors there are.
exponent

## expression

## expression $5 x+3$

A variable or combination of variables, numbers, and symbols that represents a mathematical relationship.

## factor

## factor

## $2 \times 6=12$

factors

## factor <br> $\underset{\sim}{2 \times 6}=12$ <br> factors

An integer that divides evenly into another.

## first quartile

## first quartile <br> 

first quartile


The first quartile is the middle (the median) of the lower half of the data on a box plot. One-fourth of the data lies below the first quartile and threefourths lies above. Also known as Q1.

## formula

# formula 



# Volume of a cube is $\mathrm{V}=s^{3}$ 



Volume of a cube is

$$
\mathbf{V}=s^{3}
$$

A general mathematical statement or rule.

## fraction

## What is $\frac{3}{4}$ ? <br> Measurement Model <br> I IL <br> Bar Diagram <br> (thickened number line) <br>  <br> Set Model <br>  <br> Regional/Array Model <br> 

| What is $\frac{3}{4}$ ? |  |  |
| :---: | :---: | :---: |
| Measurement Model | Set Model | Regional/Array Mode |
|  |  | $4$ |
| - 1 1 |  |  |
| Bar Diagram hickened number line) |  |  |

A way of representing part of a whole or part of a group by telling the number of equal parts in the whole and the number of parts you are describing.

## gap

Hours Watching TV In One Week

## gap

Hours Watching TV In One Week
gap
$\times$
$\times \quad \times$
$\times \times \times \times \times \times \times$
$x \quad x \times x \times \times \times \times \times \times \times \times x \quad x$


gap


A place on a graph where no data values are present.

## graph

## graph


graph


A pictorial device used to show a numerical relationship.

## greater than

## greater

 than

Greater than is used to compare two numbers when the first number is larger than the second number.

# greatest common factor 

## greatest common

 factor$$
\begin{aligned}
& 12(1,2,3,4,6,12) \\
& 18(1,2,3,6,9,18)
\end{aligned}
$$

$$
\mathbf{G C F}=6
$$

greatest common factor
$12(1,2,3,4,6,12)$
$18(1,2,3,6,9,18)$

$$
\text { GCF }=6
$$

GCF. The
largest factor
of two or
more
numbers.

## height

## height



The perpendicular distance from a vertex to the opposite side of a plane figure.

## histogram

## histogram



## histogram



A bar graph in which the labels for the bars are numerical intervals.

## improper fraction

## improper fraction



## improper fraction



A fraction with a numerator greater than (or equal to) its denominator.

## independent variable

## independent variable



## independent variable

C80)

| \# Bikes | 1 | 2 | 3 | 4 |
| :--- | :---: | :---: | :---: | :---: |
| Wheels | 2 | 4 | 6 | 8 |

A variable in a mathematical equation whose value determines that of a dependent variable.

## inequality

## $5 x+6<20-2 x$

## inequality



$$
5 x+6<20-2 x
$$

## inequality



A mathematical
sentence that compares
two unequal expressions
using one of the symbols $<,>, \leq, \geq$, or $\neq$.

## infinite

## infinite

## infinite

Having no boundaries or limits.

## integers

## integers <br> 

## integers <br> 

The set of whole numbers and their opposites.

## interquartile range

## interquartile range



## interquartile range



The difference between the upper quartile and the lower quartile.

## isosceles triangle

# isosceles triangle 



isosceles triangle



A triangle that has at least two congruent sides.

## least common multiple

# least common multiple 

6, 12, 18, 24, 30, 36, 42...
8, 16, 24, 32, 40, 48, 56...
$\mathbf{L C M}=\mathbf{2 4}$
least common multiple

6, 12, 18, 24, 30, 36, 42...
$8,16,24,32,40,48,56 \ldots$
$\mathbf{L C M}=\mathbf{2 4}$

LCM. The smallest common multiple of a set of two or more numbers.

## less than

## less than


$3<5$


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

## line plot

# line plot 


line plot


Also known as a dot plot.
A diagram showing frequency of data on a number line.

## lower extreme

\section*{lower extreme <br> lower extreme <br>  <br> | 0 |
| :--- | $1015 \quad 20253035404550556065707580859095100$}

lower extreme
lower extreme


| 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 4045 | 50 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 50 | 60 | 65 | 707580859095100 |  |  |  |  |  |  |

The smallest or least number out of a data set, usually farther away from interquartile range than other data in set.
(Also known as minimum.)

