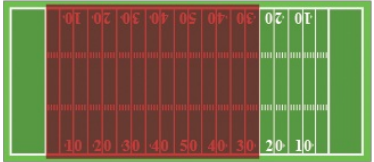
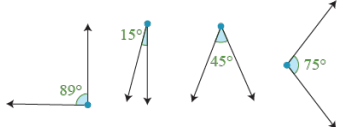
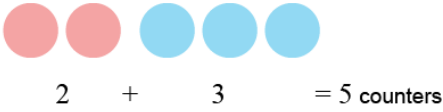




Vocabulary Word List

Grades 3-5



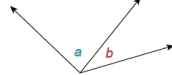
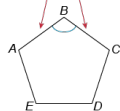
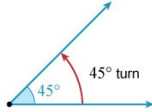
Term	Definition	Example
acre	A U.S. standard unit of measurement used to measure large areas, often used to measure an area of land.	Example: 1 acre = 4,840 square yards Example: 1 acre = 43,560 square feet Example: An acre of land is about $\frac{3}{4}$ the area of a football field.  The picture shows an acre of land in red superimposed on an American football field (shown in green).
acute angle	An angle that measures between 0° and 90° .	Acute Angles 
add	To combine or join two or more numbers or groups to find the total.	
addend	When two or more quantities are added, each quantity is called an addend.	



Vocabulary Word List

Grades 3-5



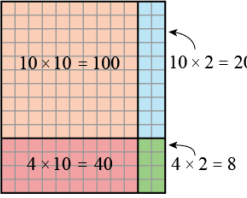
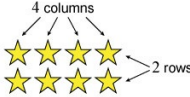
Term	Definition	Example
adjacent	Attached or next to.	Example: Angles are adjacent if they share the same vertex and one common side. Angle <i>a</i> is adjacent to angle <i>b</i>.  Example: Sides are adjacent if they share a common vertex. adjacent sides  Line segments <i>AB</i> and <i>BC</i> share the same vertex of pentagon <i>ABCDE</i>. Line segment <i>AB</i> is adjacent to line segment <i>BC</i>.
algorithm	A step-by-step set of directions for performing a procedure.	Example: Standard Algorithm for Addition Steps: 1 44 + 28 72 1. Add the ones: 4 ones + 8 ones = 12 ones. 2. Regroup 12 ones as 1 ten and 2 ones. 3. Record the total amount of ones as 2. 4. Make a note that you need to add another 1 ten. 6. Add the tens: 1 ten + 4 tens + 2 tens = 7 tens. 7. Record the total amount of tens as 7.
a.m.	A time in the morning. A time between midnight and noon. Example: 7:00 a.m. means "7 o'clock in the morning."	
angle	When two line segments or rays share an endpoint, and one rotates or turns away from the other, it forms an angle. The angle is named and measured by the amount of the turn or rotation.	



Vocabulary Word List

Grades 3-5



Term	Definition	Example
approximately	Almost the exact amount.	Example: Sarah ate $\frac{3}{5}$ of the pizza. She ate approximately one-half of the pizza.  $\frac{3}{5}$ is approximately equal to $\frac{1}{2}$ $\frac{3}{5} \approx \frac{1}{2}$
area	The area of a flat, closed figure is a measure of the number of same-size squares that fill the shape with no spaces or overlaps.	 Area = 8 square units
area model	A model of multiplication that shows the partial products resulting from splitting the two factors into place-value parts. Each section of the model shows a partial product. The sum of the partial products is the product of the two factors.	$10 \times 10 = 100$ $10 \times 2 = 20$ $4 \times 10 = 40$ $4 \times 2 = 8$ 168 $14 \times 12 = 168$ 
array	A collection of objects, pictures, or numbers arranged in equal-sized rows and equal-sized columns.	 An array of stars



Vocabulary Word List

Grades 3-5



Term	Definition	Example
associative property of addition	When there are three or more addends, they may be grouped in different ways to add. The sum will be the same no matter which way they are grouped. Use parentheses to show which addends are grouped.	 $(2 + 3) + 4 = 2 + (3 + 4)$
associative property of multiplication	When there are three or more factors, they may be grouped in different ways to multiply. The product will be the same no matter which way they are grouped. Use parentheses to show which factors are grouped.	$(2 \times 3) \times 4 = 2 \times (3 \times 4)$
availability (of a product)	A state of being accessible or ready to be used, sold, or purchased.	Example: As the day of the concert approached, the availability of tickets for the show decreased.  Example: We switched to shopping at Matt's Market when the availability of our favorite apples increased. 



Vocabulary Word List

Grades 3-5



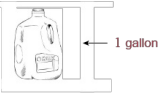
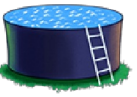
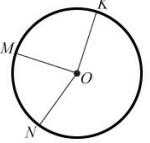
Term	Definition	Example																										
bar graph (bar chart)	A graph using rectangular bars where the height or length of each bar represents a value from the data being graphed. The bars are spaced evenly without touching.	Type of Pets <table border="1"><thead><tr><th>Type of Pets</th><th>Number of Students</th></tr></thead><tbody><tr><td>Hamsters</td><td>2</td></tr><tr><td>Rats</td><td>3</td></tr><tr><td>Dogs</td><td>7</td></tr><tr><td>Fish</td><td>5</td></tr><tr><td>Snakes</td><td>2</td></tr><tr><td>Cats</td><td>6</td></tr></tbody></table> Eye Colors of Students <table border="1"><thead><tr><th>Eye Color</th><th>Number of Students</th></tr></thead><tbody><tr><td>Hazel</td><td>5</td></tr><tr><td>Green</td><td>8</td></tr><tr><td>Gray</td><td>3</td></tr><tr><td>Brown</td><td>15</td></tr><tr><td>Blue</td><td>25</td></tr></tbody></table>	Type of Pets	Number of Students	Hamsters	2	Rats	3	Dogs	7	Fish	5	Snakes	2	Cats	6	Eye Color	Number of Students	Hazel	5	Green	8	Gray	3	Brown	15	Blue	25
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base-10 number system	The number system we use is a base-ten system. It is also known as a decimal system. It has ten digits from 0 to 9 that allow you to write all real numbers by using place value and a decimal point. The value of a digit depends on its position in a number. Each position is 10 times the value of the digit to its right.	Millions Hundred Thousands Ten Thousands Thousands Hundreds Tens Ones Tenths Hundredths Thousandths Ten Thousandths 6,584,791.0324 THOUSANDS ONES DECIMALS																										
base (of a figure)	In a solid figure, the base is the surface that it is standing on. In a polygon, any side can be a base. However, the base is often named as the bottom side. Also, if the top and bottom of a solid figure or a polygon are parallel, then both are considered bases.	base base base base base																										



Vocabulary Word List

Grades 3-5



Term	Definition	Example
benchmark fractions	Common fractions like $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{3}{4}$ that can be used to compare other fractions.	 Using the benchmark fraction $\frac{1}{2}$, compare $\frac{3}{8}$ and $\frac{9}{16}$. $\frac{3}{8} < \frac{1}{2}$ and $\frac{9}{16} > \frac{1}{2}$, so $\frac{3}{8} < \frac{9}{16}$.
capacity	The maximum amount that a container can hold.	Example: The milk container's capacity is 1 gallon because that is the maximum amount that will fit in it.  Example: The pool is filled to capacity; it will overflow if you get in! 
center	The middle part or point of something.	Example: The center point of a circle is the same distance to every point on a circle. 
circle	A two-dimensional figure that consists of all points that are all the same distance from a point. The point is called the center of the circle.	 Circle O: Points M, K, N, and every other point on the circle is the same distance from O. $\overline{KO} = \overline{MO} = \overline{NO}$



Vocabulary Word List

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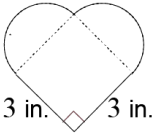
Term	Definition	Example
common denominator	A common multiple of the denominators of two or more fractions; the denominator is the number below the fraction bar in a fraction.	Example: Find $\frac{3}{4} + \frac{5}{8} = \square$. To add $\frac{3}{4}$ to $\frac{5}{8}$, find a common denominator by identifying common multiples of the denominators 4 and 8. Multiples of 4: 4, 8, 12 Multiples of 8: 8, 16, 24 Because the least common multiple of 4 and 8 is 8, convert $\frac{3}{4}$ to have a denominator of 8 by multiplying the numerator and denominator by 2. $\frac{3}{4} = \frac{2 \times 3}{2 \times 4} = \frac{6}{8}$ $\frac{3}{4} + \frac{5}{8} = \frac{6}{8} + \frac{5}{8}$ $= \frac{6+5}{8}$ $= \frac{11}{8}$
common factor	A number that is a factor of two or more numbers. The number that divides evenly into two or more numbers.	$12 = 4 \times 3$ $20 = 4 \times 5$ Since 12 and 20 are both divisible by 4, 4 is a common factor of 12 and 20.
common multiple	A number that is a multiple of two or more numbers.	Multiples of 4: 4, 8, 12, 16, 20, 24 ... Multiples of 6: 6, 12, 18, 24, 30 ... 12 and 24 are common multiples of 4 and 6



Vocabulary Word List

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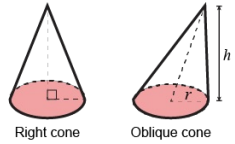
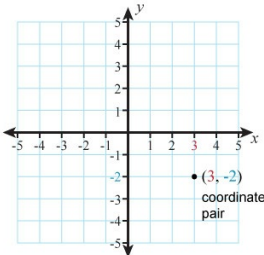
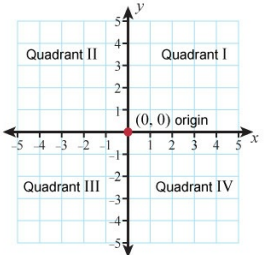
Term	Definition	Example
commutative property	For two addends in addition, changing the order of the addends does not change the sum. For two factors in multiplication, changing the order of the factors does not change the product.	Commutative Property of Addition $4 + 3 = 3 + 4$  Commutative Property of Multiplication $4 \times 3 = 3 \times 4$
composite figure	One figure that can be shown as two or more combined figures.	Example: A heart can be drawn as a composite figure by using one square and two semicircles.  Example: Olga used a rectangular prism and a triangular prism to make a composite figure that models a house. 
composite number	A whole number with factors other than itself and 1. 12 is a composite number because it has factors 1, 2, 3, 4, 6, and 12.	$12 = 4 \times 3$ $20 = 4 \times 5$ 12 and 20 are composite numbers. 7 is not a composite number because it only has the factors 1 and 7.



Vocabulary Word List

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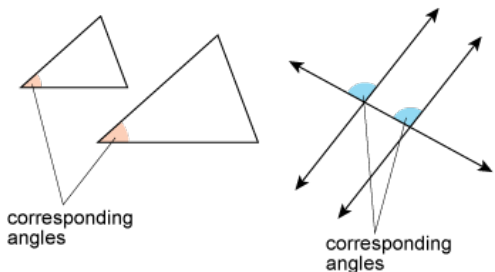
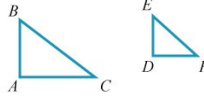
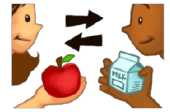
Term	Definition	Example
cone	A three-dimensional (solid) shape with a circular base and a curved surface that tapers to a point called the vertex. A cone with the height perpendicular to the base is called a right cone. If the vertex is not perpendicular to the base it is called an oblique cone.	 Right cone Oblique cone There are many examples of cones in daily life. These include ice cream cones, party hats, traffic cones, and a tepee (also called a tipi, a conical tent used by Native Americans). 
coordinate pair	A pair of numbers of the form (x, y) that locate a point in the coordinate plane. The first coordinate or x-coordinate is the distance left or right from the origin $(0, 0)$, and the second coordinate or y-coordinate is the distance up or down from the origin. The coordinate pair is also called an ordered pair.	
coordinate plane	A two-dimensional flat surface, or plane, with two perpendicular lines called axes intersecting at a point called the origin. The two axes divide the plane surface into four sections called quadrants. Position or location on the coordinate plane is designated by ordered pairs of coordinates. See coordinate pair.	



Vocabulary Word List

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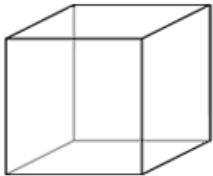
Term	Definition	Example
corresponding angles	Angles of similar or congruent figures that have the same relative position and the same measure.	 The diagram on the left shows two triangles with one angle in each highlighted in orange and labeled 'corresponding angles'. The diagram on the right shows two intersecting lines with two angles highlighted in blue and labeled 'corresponding angles'.
corresponding sides	Corresponding sides of congruent figures have the same relative position and are equal in length. Corresponding sides of similar figures have the same relative position with lengths that are proportional.	Congruent triangles  Corresponding sides marked with same number of tick marks. Similar triangles  $\triangle ABC \sim \triangle DEF$ corresponding sides: $\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF}$ Corresponding sides are proportional.
cost	An amount of money to be paid in exchange for an item or service.	Example: It costs Billy \$42 to buy a video game.  Example: The cost of my milk was an apple. 



Vocabulary Word List

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Term	Definition	Example
cube	A three-dimensional figure with six congruent square faces.	
cup	A unit of measurement for capacity, or liquid volume, that is often used in cooking equal to 8 fluid ounces or 16 tablespoons; a container used to hold beverages.	Example: The bread recipe requires 3 cups of flour.  Example: Brett poured his tea into a cup. 
customary measurement system	A system of measurement used in the United States. The basic units of length are inch, foot, yard, and mile. The basic units of weight are ounce, pound, and ton. The basic units of capacity are cup, pint, quart, and gallon.	Measuring Devices : Ruler to measure distance. Scale to measure weight. Cup to measure liquid volume. 
cylinder	A three-dimensional shape with two congruent parallel bases in the shape of a circle. The curved surface connects the two circles and is a rectangle, which you can see if the curved surface is cut vertically and laid flat.	



Vocabulary Word List

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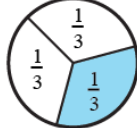
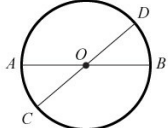
Term	Definition	Example										
data	A collection of numbers or values that relate to a particular subject. Information such as counts, measurements, and ratings that are collected and analyzed to answer questions.	Example: The data in the table shows the number of plants of different heights. <table><tr><th>Height of Plants (inches)</th><th>Number of Plants</th></tr><tr><td>2</td><td> </td></tr><tr><td>3</td><td> </td></tr><tr><td>4</td><td> </td></tr><tr><td>5</td><td> </td></tr></table>	Height of Plants (inches)	Number of Plants	2		3		4		5	
Height of Plants (inches)	Number of Plants											
2												
3												
4												
5												
decimal	The numbers we use are decimal numbers because there are 10 digits (0, 1, 2, 3, 4, 5, 6, 7, 8, 9). A decimal point is used to separate the whole number part of a number and the part that is less than 1 whole. The digits to the right of a decimal are fractions of 1 whole.											
decompose (decomposition)	To break apart into parts or pieces.	Example: The value 45 can be decomposed. $45 = 40 + 5$ $45 = 10 + 10 + 10 + 10 + 1 + 1 + 1 + 1 + 1$ Example: Decompose the mixed number $3\frac{2}{5}$. $3 + \frac{2}{5} \quad \text{or} \quad \frac{15}{5} + \frac{2}{5} \quad \text{or} \quad \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{2}{5}$										
degree	A degree is the unit of measure for an a rotation of one ray or line segment from another is $\frac{1}{360}$ of a rotation.											



Vocabulary Word List

Grades 3-5



Term	Definition	Example
demand (of a product)	The amount of goods or services consumers are willing to buy at a given price during a specific period of time.	Example: Since the price of tickets decreased, many consumers rushed to buy more. Now the demand for tickets is high and the supply is low. 
denominator	The number below the fraction bar in a fraction that shows the number of equal-sized parts the whole has been divided into.	$\frac{3}{5}$ ← denominator  3 of 5 equal parts = $\frac{3}{5}$
diagonal	A line segment that connects two vertices of a polygon. The diagonal is not a side of the polygon, so it does not connect vertices that are next to each other.	 The diagonals of each rectangle are the same length.
diagram	A drawing or graphic used to represent relationships.	Example: The diagram represents 1 out of 3 parts of a whole. 
diameter	A line segment through the center of a circle with endpoints on the circle.	 $\overline{AB}$ and $\overline{CD}$ are diameters of Circle O with center O.



Vocabulary Word List

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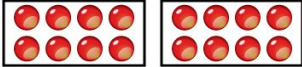
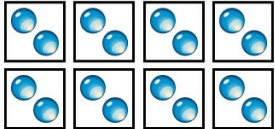
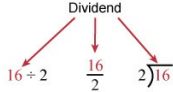
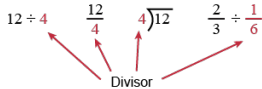
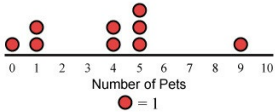
Term	Definition	Example
difference	The result of subtraction. It is also the distance between numbers on a number line.	$12 - 7$ is the distance from 7 to 12 The distance is 5. The difference is 5.
digit	The symbols 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 that are used to write numbers.	Digits The number 25 has two digits. The digits are 2 and 5. The digit 2 has a value of 20 in the number 25. The digit 5 has a value of 5 in the number 25.
dimensions	Attributes such as length,width, and height. A line has one dimension: length. A rectangle has two dimensions: length and width. A rectangular prism has three dimensions: length, width, and height.	1-dimension 2-dimensions 3-dimensions
distance	The length of something between two points.	Example: The distance between $\frac{1}{4}$ and $\frac{3}{4}$ on a number line is $\frac{2}{4}$. The equation $\frac{3}{4} - \frac{1}{4} = \frac{3-1}{4} = \frac{2}{4}$ represents the model and the situation.



Vocabulary Word List

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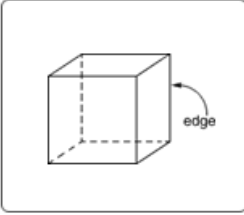
Term	Definition	Example
divide	To separate a number into equal parts or equal groups. Division can be used to find the number in each group or the number of groups. Example: There are 16 marbles divided into 2 groups. There are 8 marbles in each group. Example: There are 16 marbles. There are 2 marbles in each group. There are 8 groups of marbles.	16 marbles divided evenly into 2 groups: $16 \div 2 = 8 \text{ and } \frac{16}{2} = 8$  16 marbles divided evenly into 8 groups: $16 \div 8 = 2 \text{ and } \frac{16}{8} = 2$ 
dividend	The name for the number that is being divided. In a division expressed as a fraction, the numerator is the dividend. In the long division format, it is the number under the partial rectangle.	
divisor	A number by which another number is being divided.	Examples: 
dot plot	A graph that shows data as dots, or points above a number line. The data values are usually listed below a horizontal axis, and the dots are stacked vertically for the data points. The number of dots tell you the number of instances of that value.	 Interpret the graph: Two students have 4 pets. No students have 3 pets. One student has no pets.



Vocabulary Word List

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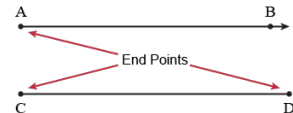
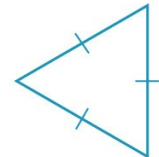
Term	Definition	Example
double	To add the same amount twice or to multiply an amount by 2.	Example: $2 + 2 = 4$ and 4 is double the amount of 2. Example: $2 \times 3 = 6$ and 6 is double the amount of 3.
dozen	Twelve of something; a group of 12.	Example: There are one dozen eggs in the carton. 
earn	To receive or gain something in return for work or services.	Example: Sam earns \$12 per hour when he works at the ice cream shop.  Example: Mandy earned 100% on her test for answering all the questions correctly. 
edge	A line segment that is formed when two faces of a three-dimensional figure meet.	
elapsed time	The amount of time that has passed between a starting time and the ending time. The elapsed time can be expressed in seconds, minutes, hours, days, or longer.	Example: The clock shows the time change from 2:00 to 2:15. The elapsed time is 15 minutes. 



Vocabulary Word List

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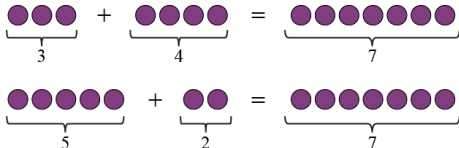
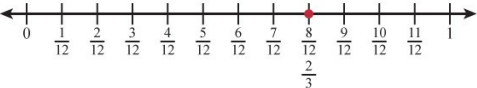
Term	Definition	Example														
endpoint	The point at the beginning of a ray and the points on either end of a line segment.	 A is the endpoint of $\overrightarrow{AB}$. C and D are endpoints of $\overline{CD}$.														
equal	When two expressions or quantities have the same value. The equal symbol (=) means that two expressions have the same value.	$x + 1 = 10$ $x = 9$ $5(8 - 3) = 5 \times 5$ $\frac{3}{4} = \frac{6}{8}$ $\frac{3}{10} = 0.3$														
equation	A mathematical sentence with an equal sign that shows that two expressions have equal values. There are different kinds of equations such as linear and quadratic.	<table border="1"><caption>Different Types of Equations</caption><thead><tr><th>Type</th><th>Example</th></tr></thead><tbody><tr><td>Missing Value</td><td>$x + 2 = 10$</td></tr><tr><td>Linear</td><td>$y = x + 4$</td></tr><tr><td>Function</td><td>$f(x) = 5x - 1$</td></tr><tr><td>Quadratic</td><td>$y = x^2 - 4$</td></tr><tr><td>Exponential</td><td>$y = 2^x$</td></tr><tr><td>Numeric</td><td>$6 + 4 = 10$</td></tr></tbody></table>	Type	Example	Missing Value	$x + 2 = 10$	Linear	$y = x + 4$	Function	$f(x) = 5x - 1$	Quadratic	$y = x^2 - 4$	Exponential	$y = 2^x$	Numeric	$6 + 4 = 10$
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Linear	$y = x + 4$															
Function	$f(x) = 5x - 1$															
Quadratic	$y = x^2 - 4$															
Exponential	$y = 2^x$															
Numeric	$6 + 4 = 10$															
equilateral triangle	A triangle with all three sides the same length.															



Vocabulary Word List

Grades 3-5



Term	Definition	Example
equivalent	Equal in value or size.	Example: $\frac{2}{3}$ and $\frac{4}{6}$ are equivalent because they represent the same amount of the rectangle.  Example: $3 + 4$ is equivalent to $5 + 2$ because both expressions have a sum of 7. 
equivalent expressions	Expressions that represent the same value.	$\begin{array}{r} 2 + 3 \\ 1 + 4 \\ \hline 5 \end{array}$ Each of these expressions have a value of 5.
equivalent fractions	Fractions that are equal in value but may have different numerators and denominators. Note: When two fractions are equivalent, the numerator and denominator have the same relationship and represent the same part of a whole. Equivalent fractions represent the same location on a number line.	 $\frac{8}{12} = \frac{2}{3}$ $\frac{8}{12}$ and $\frac{2}{3}$ represent the same part (area) of the whole. $\frac{8}{12}$ and $\frac{2}{3}$ are equivalent fractions.  Equivalent fractions represent the same location on a number line.



Vocabulary Word List

Grades 3-5



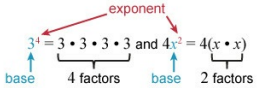
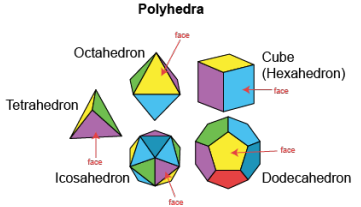
Term	Definition	Example																																																																																																				
estimate	A value that represents about how much something is.	Example: Estimate the sum of $6.85 + 1.13$ $\\$6.85 \approx \\7.00 and $\\$1.13 \approx \\1.00 $\\$6.85 + \\$1.13 \approx \\$8.00$																																																																																																				
evaluate	To find the value of an expression. To do this, substitute the given or known value of each variable into the expression and perform the operations according to the order of operations. The answer represents the value of the expression for the given values of the variables.	Evaluate $4 + 3(x + 8) \div 2$ for $x = 2$ $4 + 3(2 + 8) \div 2 = 4 + 3(10) \div 2$ $= 4 + 30 \div 2$ $= 4 + 15$ $= 19$																																																																																																				
even (number)	A number divisible by 2; numbers that end in 0, 2, 4, 6, or 8.	Example: The number 14 is an even number because it is divisible by 2. $14 \div 2 = 7$ Example: Even numbers through 100 are shown in the chart and are shaded blue. Notice that all these numbers end in 0, 2, 4, 6, or 8. <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr><tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr><tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr><tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr><tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr><tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr><tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr><tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr><tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr></table> Example: This model shows that 12 is an even number because all twelve of the red circles are paired up.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Vocabulary Word List

Grades 3-5



Term	Definition	Example
expanded form (place value)	When a number is expressed as the sum of its place value parts. It can also be expressed as a sum of the products of each digit and its place value, or as a sum of the products of each digit with the place value written as a power of 10.	Expanded Form: $4,865 = 4,000 + 800 + 60 + 5$ $= 4(1,000) + 8(100) + 6(10) + 5(1)$ $= 4 \cdot 10^3 + 8 \cdot 10^2 + 6 \cdot 10^1 + 5 \cdot 10^0$
exponent	A number that indicates the number of times another number (the base) is to be used as a factor. When the exponent is 2, we say the base is squared. If the exponent is 3, we say the base is cubed. For exponents greater than 3, we say the base to the "nth" power. In the example, we would say 3 to the fourth power and four "x" squared.	
expression	A mathematical statement that represents a number or quantity. Expressions may include numbers, variables, and operators. An expression does not include an equal symbol.	Expressions: $2xy$ $x^2 + 2$ $2(x + 5)$ Equation: $2x + 5 = 17$ Labels: Expression (under $2x + 5$), Constant Expression (under $= 17$)
face	A face of a polygon is the flat surface of a three-dimensional figure.	 Polyhedra Each face is a polygon.



Vocabulary Word List

Grades 3-5



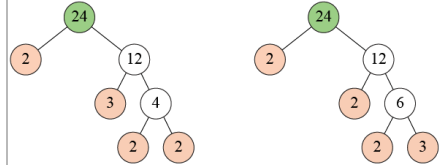
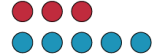
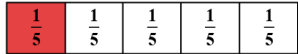
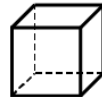
Term	Definition	Example
fact family	A fact family is a set of related addition-subtraction equations or multiplication-division equations. Fact families consist of 3 numbers that show either the addition/subtraction relationship among them or the multiplication/division relationship among them. Fact families show the relationship of inverse operations.	$3 + 5 = 8$ $5 + 3 = 8$ $8 - 5 = 3$ $8 - 3 = 5$ $2 \times 5 = 10$ $5 \times 2 = 10$ $10 \div 2 = 5$ $10 \div 5 = 2$
factor	As a noun: A whole number, quantity, or variable that is multiplied by one or more whole numbers, quantities, or variables. As a verb or action: To factor is to break a number apart into its factors.	Factors $3 \times 5 = 15$ $3x = y$ Factors To factor 24 $2 \times 2 \times 2 \times 3$ Factors of 24
factor pair	Two whole numbers that are multiplied together to make a specified product.	Example: 2 and 4 are a factor pair of 8 since $2 \times 4 = 8$. 8 2 × 4
factor rainbow	A display of factor pairs of a number using colorful arcs to connect the factors.	Example: This factor rainbow shows all the factor pairs of 36. 1 2 3 4 6 6 9 12 18 36
factor table	A chart used to show pairs of numbers that can be multiplied together to make a specified product.	Example: This factor table lists all the factor pairs of 24. 24 1 24 2 12 3 8 4 6



Vocabulary Word List

Grades 3-5



Term	Definition	Example
factor tree	A diagram used to show the factors and prime factors of a number.	Example: These factor trees show that 2 and 12 are factor pairs of 24. $2 \times 2 \times 2 \times 3 = 24$ is the prime factorization of 24. 
fewer	A smaller number of something.	Example: There are 2 fewer red circles than blue circles.  Example: As more people download songs, fewer people buy CDs. 
fifth	One of five equal parts of something.	Example: One fifth of the rectangle is shaded red.  Example: The fraction $\frac{3}{5}$ represents three fifths. $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
figure (geometric)	Any point, line, shape, or solid.	Example: A triangle is a figure. This triangle is divided into two equal-size parts.  Example: A cube is a figure. 



Vocabulary Word List

Grades 3-5



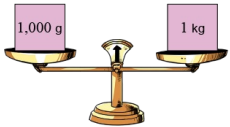
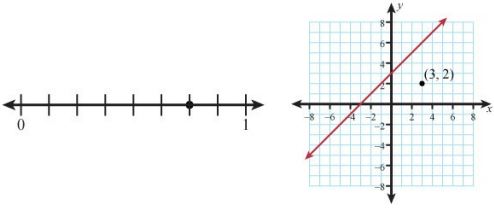
Term	Definition	Example										
formula	A rule that represents a mathematical relationship; usually written with variables to represent the related quantities.	Formula Volume of a prism = length × width × height $V = l \times w \times h$										
fourth	One of four equal parts.	Example: The fraction $\frac{1}{4}$ is one of 4 equal parts. The model shows 1 of 4 equal parts shaded to represent $\frac{1}{4}$. <table><tr><td>$\frac{1}{4}$</td><td>$\frac{1}{4}$</td><td>$\frac{1}{4}$</td><td>$\frac{1}{4}$</td></tr></table>	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$						
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$									
fraction	A number that is expressed in the form $\frac{a}{b}$ where b does not equal 0. Fractions name a part of a whole or part of a set. The top number (numerator) is the number of parts taken or being considered; the bottom number (denominator) tells the number of equal parts in one whole. On a number line, a fraction with a numerator less than the denominator lies between 0 and 1.	$\frac{1}{4}$ ← numerator ← denominator										
frequency	The number of times something occurs or happens.	Example: The table shows the number of meal worms and their lengths used in an experiment. <table><tr><th>Length of Mealworms (inches)</th><th>Number of Mealworms</th></tr><tr><td>$\frac{1}{4}$</td><td> </td></tr><tr><td>$\frac{1}{2}$</td><td> </td></tr><tr><td>$\frac{3}{4}$</td><td> </td></tr><tr><td>1</td><td> </td></tr></table> The frequency of meals worms with a length of $\frac{1}{2}$ inch is 5.	Length of Mealworms (inches)	Number of Mealworms	$\frac{1}{4}$		$\frac{1}{2}$		$\frac{3}{4}$		1	
Length of Mealworms (inches)	Number of Mealworms											
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Vocabulary Word List

Grades 3-5



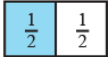
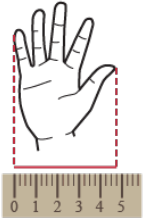
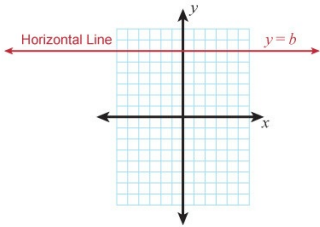
Term	Definition	Example
gallon	A standard unit of measurement used to measure liquid volume.	Example: There are 128 fluid ounces in one gallon of milk. There are 16 cups in one gallon of milk. 
gram	A metric unit of measurement for mass or weight.	Example: A paperclip weighs about 1 gram.  Example: There are 1,000 grams in 1 kilogram. 
graph	A pictorial representation of a mathematical relationship. A graph can be a point on a number line, a line on a coordinate grid, a part of a plane, or it can be a representation of data such as a line plot, bar graph, dot plot, scatter plot, or box and whiskers plot.	Graphs 
greater than	More than or bigger. The symbol $>$ means <i>greater than</i> .	Examples: $5 > 4$ and $\frac{1}{3} > \frac{1}{4}$



Vocabulary Word List

Grades 3-5



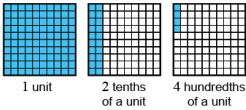
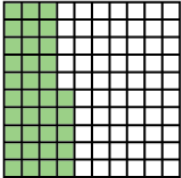
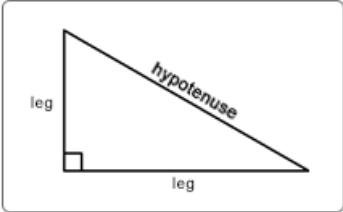
Term	Definition	Example
half (halves)	One of two equal parts.	Example: The fraction $\frac{1}{2}$ is one of 2 equal parts. The model shows 1 of 2 equal parts shaded to represent $\frac{1}{2}$. 
handspan	The distance from the tip of the thumb to the tip of the pinky finger when the hand is stretched out.	Example: This handspan is $4\frac{3}{4}$ inches in length. 
horizontal	Parallel to the ground or the horizon. On a coordinate plane, the x-axis is the horizontal axis. It is perpendicular to the vertical axis. All lines that are parallel to the x-axis are also horizontal. Moving in a horizontal direction means to move left or right along the x-axis or a line parallel to the x-axis.	
hour	A unit of measurement for time.	Example: There is 1 hour, or 60 minutes, between 3:00 and 4:00. Example: There are 24 hours in 1 day. 



Vocabulary Word List

Grades 3-5



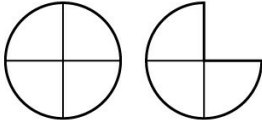
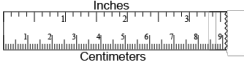
Term	Definition	Example
hundred	A value that defines and represents 100 units.	Example: 1 hundred is equivalent to 10 tens or 100 ones. 1 hundred = 10 tens = 100 ones  Example: The 5 in 523 is in the hundreds place. Because there are 5 hundreds, the 5 represents a value of 500. 523
hundredth	A value that defines and represents $\frac{1}{100}$ of a unit.	Example: One-hundredth of the square is shaded red.  One-hundredth can be represented by the fraction $\frac{1}{100}$. Example: In 1.24, the 4 is in the hundredths place. The value of 4 hundredths is equal to $\frac{4}{100}$. 1.24 
hundredth grid (decimal grid)	A 10×10 grid, also called a decimal grid, that can be used to model hundredths, decimals, or percentages.	Example: The hundredths grid models $25\% = 0.25 = \frac{25}{100}$ of the grid shaded. 
hypotenuse	The side of a right triangle that is opposite the right angle; the longest side of a right triangle.	



Vocabulary Word List

Grades 3-5



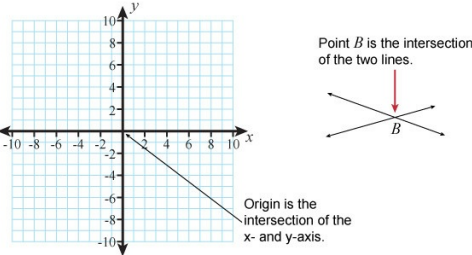
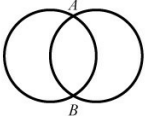
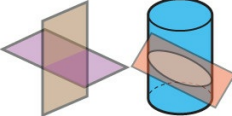
Term	Definition	Example
identity property of addition	The identity property of addition states that when you add 0 to a number, the result is the original number. The number 0 is called the additive identity.	additive identity $n + 0 = n$ $6 + 0 = 6$ $\frac{3}{4} + 0 = \frac{3}{4}$ $2.4 + 0 = 2.4$
identity property of multiplication	The identity property of multiplication states that when you multiply a number by 1, the result is the original number. The number 1 is called the multiplicative identity.	multiplicative identity $n \times 1 = n$ $8 \times 1 = 8$ $4.5 \times 1 = 4.5$ $\frac{5}{8} \times 1 = \frac{5}{8}$
improper fraction	Fractions with a value greater than 1. The numerator is greater than the denominator.	$\frac{7}{4}$ is greater than 1. 
inch	A unit of measurement for length in the US customary system.	Example: Jay's handspan is 5 inches in length.  Example: There are 12 inches in 1 foot.  Example: 1 inch is equivalent to 2.54 centimeters. 



Vocabulary Word List

Grades 3-5



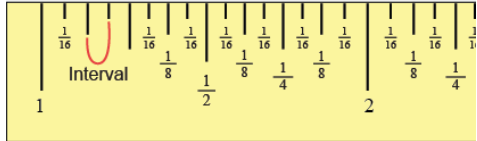
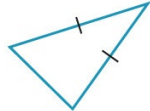
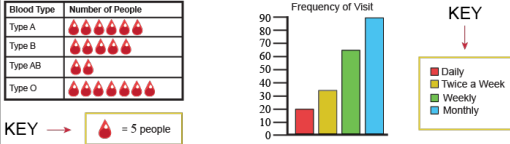
Term	Definition	Example
inequality	A sentence that contains an inequality symbol. When symbols $\neq$, $\leq$, $<$, $\geq$, $>$, and $\approx$ are used in a mathematical sentence, the sentence is called an inequality. An inequality can contain numbers, variables, or both. Inequality symbols are defined as follows: $\neq$ not equal to; $>$ is greater than; $<$ is less than; $\geq$ is greater than or equal to; $\leq$ is less than or equal to; $\approx$ approximately equal to.	$a \geq b$ $3.1 > 3.04$ $m \neq 0$ $x + y \leq 6$
integers	Numbers without a fractional or decimal part. Integers can be positive or negative. Zero is also an integer. Examples: 4 and -4 are integers. 412 and -4.5 are not integers.	 Integers
intersection	Where two figures meet or cross each other.	 Point B is the intersection of the two lines. Origin is the intersection of the x- and y-axes.  Intersection of the circles are points A and B.  Intersections



Vocabulary Word List

Grades 3-5



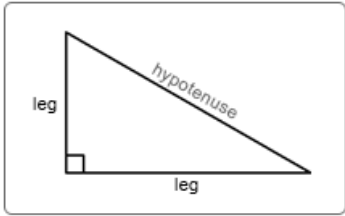
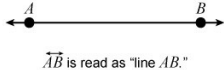
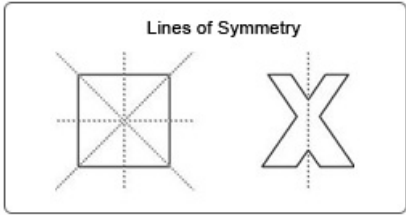
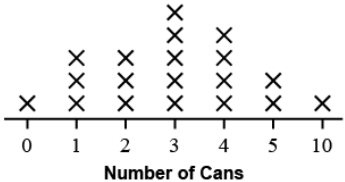
Term	Definition	Example
interval	An interval is the space between two numbers. On a ruler, the intervals represent the smallest unit of the ruler. On a number line an interval represents the space between two numbers. This space has an infinite number of numbers.	 The intervals are sixteenths of an inch.  INTERGERS
inverse operations	Operations that "undo" each other. Addition and subtraction are inverse operations. Multiplication and division are inverse operations.	Inverse Operations $5 + 4 = 9 \text{ and } 9 - 4 = 5$ $2 \times 5 = 10 \text{ and } 10 \div 5 = 2$
isosceles triangle	A triangle with two sides that are the same length.	
key	A key is used to help interpret a graphical display. For example, a key is used to identify categories present in a graph, such as a pictograph. In a pictograph, the key tells how many each picture represents.	
least common denominator	The least common multiple of two or more denominators. Also called the LCD.	$\frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \frac{12}{32}$ $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15} = \frac{12}{18} = \frac{14}{21} = \frac{16}{24}$ The least common denominator of $\frac{3}{8}$ and $\frac{2}{3}$ is 24.



Vocabulary Word List

Grades 3-5



Term	Definition	Example
legs	The legs of a right triangle are the sides that form the right angle. The legs are perpendicular to each other.	
less than	Smaller than or not as big. The symbol $<$ means <i>less than</i> .	Examples: $5 < 10$ and $\frac{1}{6} < \frac{1}{4}$
line	A line is a set of points that form a straight path extending infinitely in two directions. A line has length but no width.	
line of symmetry	A line of symmetry divides a figure into two halves that are mirror-images of each other. A figure may have zero, one, two, or more lines of symmetry. In regular polygons, the number of lines of symmetry match the number of sides of the polygon.	
line plot	A graph that shows the spread of data along a number line using Xs or dots above a number to represent a data set. The Xs show the number of times the value occurs in that data set.	Example: The line plot shows the number of cans collected by students in Mr. Lane's class. Number of Students  Number of Cans The line plot shows that 3 students collected 1 can and only 1 student collected 10 cans.



Vocabulary Word List

Grades 3-5



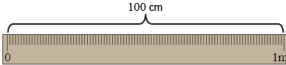
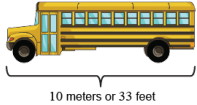
Term	Definition	Example										
line segment	A line segment is part of a line between two points. We name the line segment using its endpoints (example line segment AB) and we write it by placing a bar over the labels for the endpoints.											
long division	Long division is a step-by-step way to divide multi-digit numbers.	117R2 4)470 4 7 4 30 28 2 Long Division 1. Divide 2. Multiply 3. Subtract 4. Bring down 6. Repeat (if necessary)										
mass	The mass of an object is a measure of the amount of matter the object contains. Grams (g) are units of mass. Mass is commonly measured by the weight of the object. Weight can change depending on gravity, but mass is constant. An object weighs less on the Moon than on Earth, but its mass stays the same.	<table><tr><th>Object</th><th>Mass on Earth</th><th>Weight on Earth</th><th>Mass on Moon</th><th>Weight on Moon</th></tr><tr><td>Gold Bar</td><td>12.4 kg</td><td>12.4 kg</td><td>12.4 kg</td><td>2.05 kg</td></tr></table>	Object	Mass on Earth	Weight on Earth	Mass on Moon	Weight on Moon	Gold Bar	12.4 kg	12.4 kg	12.4 kg	2.05 kg
Object	Mass on Earth	Weight on Earth	Mass on Moon	Weight on Moon								
Gold Bar	12.4 kg	12.4 kg	12.4 kg	2.05 kg								
mental math	Simplifying or making calculations in your head without paper, pencil, or calculators.	Example: Aram used mental math when he added 30 and 20 in his head instead of using paper and pencil.										



Vocabulary Word List

Grades 3-5



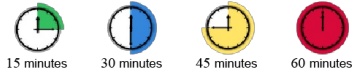
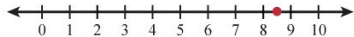
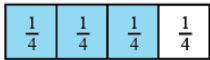
Term	Definition	Example															
meter	The base unit of length for the metric system. One meter is equal to 100 centimeters.	Example: A meter stick is often used to measure short lengths, such as the height of a desk or the width of a door. The measurements on a meter stick are in centimeters (100 cm in 1 meter).  Example: A school bus is about 10 meters long. 															
metric system	The Metric system is a system of measurement of length, mass, and capacity. The basic unit of length is the meter. The unit of mass is the gram. The unit of capacity is the liter. The ratio between the units of measurement are multiples of 10. For example: 10 millimeters = 1 centimeter.	Metric System <table><tr><th>Unit</th><th>Prefix</th><th>Symbol</th></tr><tr><td>tenth</td><td>deci</td><td>d</td></tr><tr><td>hundredth</td><td>centi</td><td>c</td></tr><tr><td>thousandth</td><td>milli</td><td>m</td></tr><tr><td>millionth</td><td>micro</td><td>μ</td></tr></table>	Unit	Prefix	Symbol	tenth	deci	d	hundredth	centi	c	thousandth	milli	m	millionth	micro	μ
Unit	Prefix	Symbol															
tenth	deci	d															
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mile	A standard unit of measurement for length in the US customary system.	Example: 1 mile is equal to 5,280 feet. Example: Beth ran one mile on the track in nine minutes.  Example: The distance between the Lincoln Memorial and the Capitol is about 2 miles. 															



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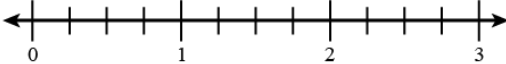
Term	Definition	Example
minute	A standard unit of measurement for time equivalent to 60 seconds.	Example: There are 60 minutes in 1 hour.  15 minutes 30 minutes 45 minutes 60 minutes Example: Luna swam the 25-meter freestyle race in less than 1 minute.  Example: The time on both the clocks show 8 hours and 30 minutes. 
mixed number	A number that represents the sum of a whole number and a fraction. A mixed number is between two whole numbers greater than 1 on the number line.	 $8\frac{1}{2} = 8 + \frac{1}{2}$
model	To represent mathematical ideas and relationships using drawings, objects, graphs, or equations.	Example: Model the fraction $\frac{3}{4}$ using fraction strips.  This model shows 3 out of the 4 parts of the rectangle shaded.
multiple	A multiple of a number is the product of a given whole number and a whole number or integer. If the given whole number is 4, then 12 is a multiple of 4 because $4 \times 3 = 12$, and 32 is a multiple of 4 because $4 \times 8 = 32$.	Multiples of 4: 4, 8, 12, 16, 20, 24 ...



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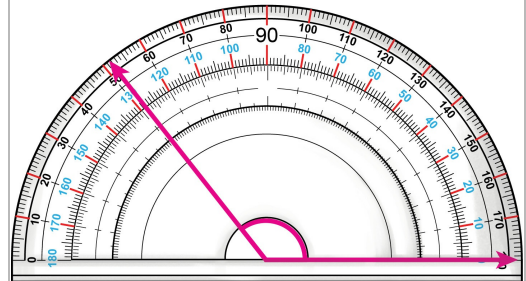
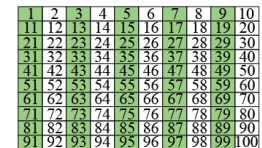
Term	Definition	Example
multiplicative identity	The multiplicative identity is the number 1, because any number times 1 is equal to itself. (See identity property of multiplication.)	$\begin{aligned} 10 \times 1 &= 10 \\ 2.5 \times 1 &= 2.5 \\ -6 \times 1 &= -6 \end{aligned}$ 1 is the multiplicative identity because 1 multiplied by any number is equal to that number.
multiply	To multiply is to find the total number or quantity in equal groups. Multiplication is one of the four basic operations with numbers. It can be thought of as repeated addition.	 How many in 3 groups of 4? $\begin{aligned} 4 + 4 + 4 &= 12 \\ 3 \times 4 &= 12 \end{aligned}$ Factors Product
number line	A line where each point represents a number.	
numerator	The integer above the line, or fraction bar, that shows how many parts are being considered out of the number of equal-sized parts indicated by the denominator. It is also the number to be divided by the denominator. For $\frac{3}{4}$ the numerator 3 is divided by the denominator 4.	



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Term	Definition	Example																				
obtuse angle	An angle with a measure greater than 90° and less than 180°.																					
odd (number)	A whole number that cannot be shown as two equal groups; a number that is not divisible by 2; numbers that end with 1, 3, 5, 7, or 9.	Example: Five pennies is an odd number of pennies because they cannot be divided into 2 equal groups.  Example: Odd numbers to 100 are shown in the chart shaded in green. Notice that all of these numbers end in 1, 3, 5, 7, or 9. 																				
operation	An act upon two numbers to produce a number. The four basic operations of arithmetic are addition, subtraction, multiplication, and division. The resulting numbers produced are called sum, difference, product and quotient. These are binary operations because they involve adding, subtracting, multiplying or dividing only two numbers at a time.	Four Basic Operations <table><tr><th>Operation</th><th>Variable Example</th><th>Result</th><th>Numeric Example</th></tr><tr><td>Addition</td><td>$a + b = c$</td><td>c is a sum</td><td>$4 + 5 = 9$</td></tr><tr><td>Subtraction</td><td>$a - b = c$</td><td>c is a difference</td><td>$5 - 4 = 1$</td></tr><tr><td>Multiplication</td><td>$a \times b = c$</td><td>c is a product</td><td>$3 \times 4 = 12$</td></tr><tr><td>Division</td><td>$a \div b = c$</td><td>c is a quotient</td><td>$9 \div 3 = 3$</td></tr></table>	Operation	Variable Example	Result	Numeric Example	Addition	$a + b = c$	c is a sum	$4 + 5 = 9$	Subtraction	$a - b = c$	c is a difference	$5 - 4 = 1$	Multiplication	$a \times b = c$	c is a product	$3 \times 4 = 12$	Division	$a \div b = c$	c is a quotient	$9 \div 3 = 3$
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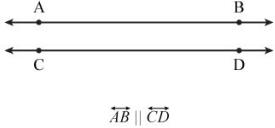
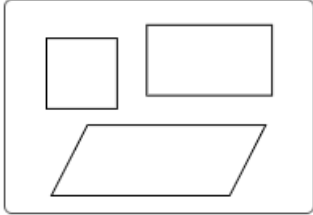
Term	Definition	Example
order of operations	The order of operations is a set of rules for simplifying an expression with more than one operation. First, simplify any operations in parentheses. Second, simplify exponents. Third, simplify multiplication and division from left to right. Fourth, simplify addition and subtraction from left to right.	$2 + (3 + 5) \div 2 - 4^2 + 5 \times 3$$2 + 8 \div 2 - 4^2 + 5 \times 3$$2 + 8 \div 2 - 16 + 5 \times 3$$2 + 4 - 16 + 15$$6 - 16 + 15$$-10 + 15 = 5$ parentheses exponent multiply and divide add and subtract
origin	The point where the horizontal and vertical axes intersect on a coordinate plane. The origin has the coordinate (0, 0).	
ounce	A standard unit of measurement for mass in the US customary system which is often used for measuring weight; abbreviated as oz.	Example: There are 16 ounces in 1 pound. = Example: Five US quarters weigh about 1 ounce.
overestimate	A method of rounding that increases all values.	Example: John wants to overestimate the cost of a movie and popcorn to be sure he brings enough money to the theater. Popcorn + Ticket = Total Estimated Cost \$5 + \$10 = \$15



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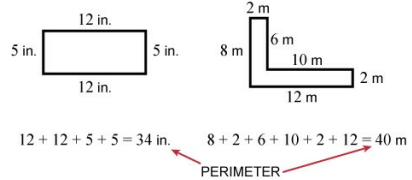
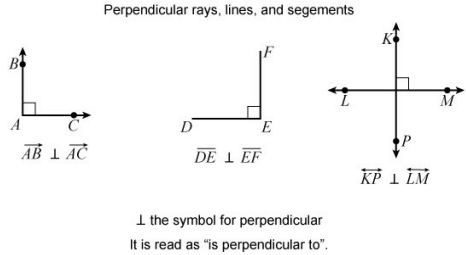
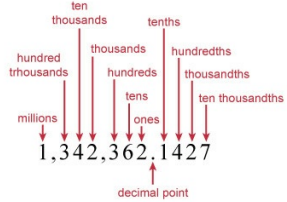
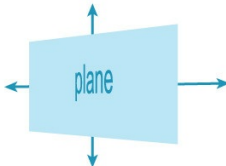
Term	Definition	Example
parallel lines	Lines in the same plane that never intersect. The symbol for parallel is $\parallel$. We say Line AB $\parallel$ Line CD.	
parallelogram	A quadrilateral in which both pairs of opposite sides are parallel.	
parentheses	Parentheses are grouping symbols that indicate in what order operations should be performed.	With parenthesis: $(3 + 6) \times 8 = 9 \times 8$ $= 72$ Without parenthesis: $3 + 6 \times 8 = 3 + 6 \times 8$ $= 3 + 48$ $= 51$
pattern	A list of shapes or numbers that are predictable. There are different kinds of patterns.	$2, 4, 6, 8, 10, 12, \dots$ repeating pattern: Start at 2, then add 2 to previous term.



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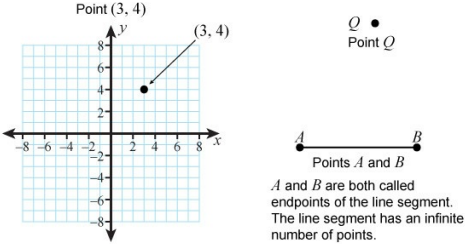
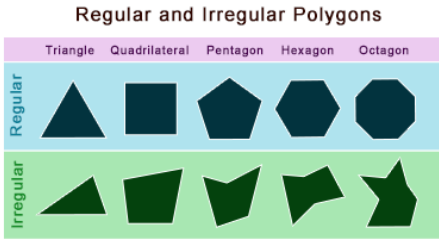
Term	Definition	Example
perimeter	The sum of the lengths of all of the sides of a polygon. The sides are measured in linear units such as feet, yards, or meters.	
perpendicular	Two lines, rays, or line segments that intersect to form right angles. To indicate that they are perpendicular, a little square is placed at the intersection.	
pint	A standard unit of measurement for liquid volume in the US customary system.	
place value	The place value of a digit is the value of the digit based on its position in the number. In the base-ten numeration system, the digit 2 in 526 is in the tens place and has a value of 20.	
plane	A flat, two-dimensional non-curved surface that extends infinitely far. It has length and width but no thickness.	



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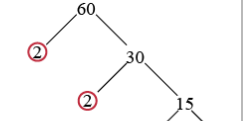
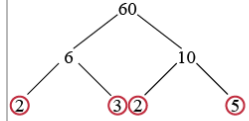
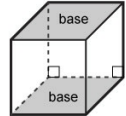
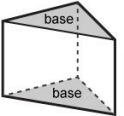
Term	Definition	Example
p.m.	A time after noon and before midnight. Example: 8:00 p.m. means 8 o'clock at night.	
point	It is an exact location. It has no size, only position. We use dots to represent points. Each point on the coordinate plane has two coordinates and is written as an ordered pair.	
polygon	A polygon is a closed, two-dimensional figure formed by line segments so that each of the segments intersects exactly two other segments at their endpoints. The line segments are called sides of the polygon. A polygon has three or more sides.	



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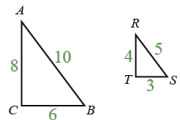
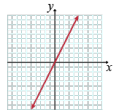
Term	Definition	Example
pound	A standard unit of measurement for mass in the US customary system, which is often used to measure weight; abbreviated as lb.	Example: There are 16 ounces in 1 pound. Example: While exercising, Mary uses a dumbbell that weighs 10 pounds.  Example: The scale indicates that 2 large apples weigh about 1 pound. 
powers of ten	The number obtained by raising 10 to a whole-number power. The exponent tells how many times 10 is a factor.	$10^1 = 10$ $10^2 = 100$ $10^3 = 1,000$ $10^4 = 10,000$
prime factorization	Factoring a number into its prime factors. Each whole number has exactly one set of prime factors.	 $2 \times 3 \times 2 \times 5 = 2^2 \times 3 \times 5$
prism	A three-dimensional shape with two parallel congruent bases that are polygons and lateral faces that are rectangles or parallelograms. The shape of the bases gives the prism its name. Example: Triangular prism, hexagonal prism.	 



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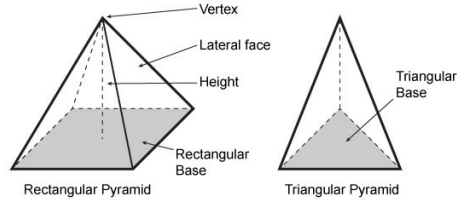
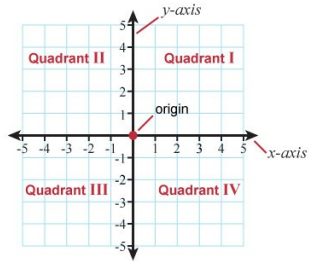
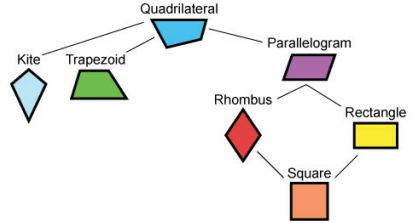
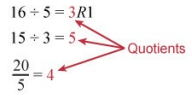
Term	Definition	Example															
product	The result you get when you multiply two numbers.	$\begin{array}{c} 6 \times 7 = 42 \\ \uparrow \\ \text{product} \\ \downarrow \\ 42 = 7 \times 6 \end{array}$															
profit	To obtain an advantage or benefit; the money earned after deducting expenses from the total income.	Example: Adam profits from practicing his violin because he becomes a better violin player.  Example: Nayo collected \$500 selling hot cocoa. It cost her \$100 for the cocoa mix, cups, and water. She made a profit of \$400. <table><tr><td>Income</td><td>Cocoa Sold</td><td>\$500</td></tr><tr><td>- Expenses</td><td>- Cost of Supplies</td><td>- \$100</td></tr><tr><td>Profit</td><td>Profit</td><td>\$400</td></tr></table>	Income	Cocoa Sold	\$500	- Expenses	- Cost of Supplies	- \$100	Profit	Profit	\$400						
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Profit	Profit	\$400															
proportional	Describes quantities that correspond in size or amount, or have the same ratio.	Example: Triangles ABC and RST are proportional because their corresponding side lengths have a ratio of 2 : 1.  <table><tr><td>$\frac{AB}{RS} = \frac{10}{5} = \frac{2}{1}$</td></tr><tr><td>$\frac{BC}{ST} = \frac{6}{3} = \frac{2}{1}$</td></tr><tr><td>$\frac{CA}{TR} = \frac{8}{4} = \frac{2}{1}$</td></tr></table> Example: A proportional relationship can be used to double a recipe. If a recipe needs 1 cup of sugar for every 3 cups of milk, it will need 2 cups of sugar for 6 cups of milk.  Example: In the equation $y = 2x$, there is a proportional relationship between x and y. Proportional relationships are shown on a graph with a straight line that passes through $(0, 0)$. <table><tr><td>x</td><td>1</td><td>2</td><td>3</td><td>4</td><td>10</td></tr><tr><td>y</td><td>2</td><td>4</td><td>6</td><td>8</td><td>20</td></tr></table> 	$\frac{AB}{RS} = \frac{10}{5} = \frac{2}{1}$	$\frac{BC}{ST} = \frac{6}{3} = \frac{2}{1}$	$\frac{CA}{TR} = \frac{8}{4} = \frac{2}{1}$	x	1	2	3	4	10	y	2	4	6	8	20
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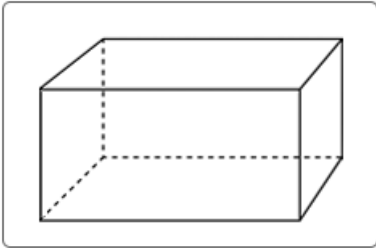
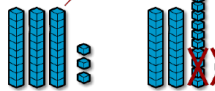
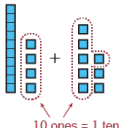
Term	Definition	Example
pyramid	A three-dimensional figure with a polygon for a base and triangular lateral faces that meet at a point called the vertex.	
quadrants	The four sections into which the coordinate plane is divided by the horizontal and vertical axes. The axes are not parts of the quadrants.	
quadrilateral	Polygons with four sides are called quadrilaterals. Different quadrilaterals are named for the relationships of angles and sides.	
quotient	When two numbers are divided, the result is called the quotient. If there is a remainder, it is not considered part of the quotient.	
ray	A part of a line with one endpoint and that extends infinitely in one direction.	 $\overrightarrow{AB}$ Read it as ray AB



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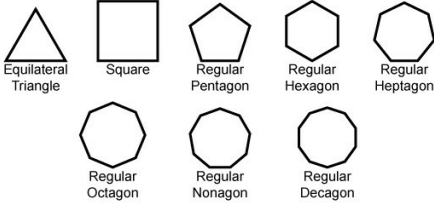
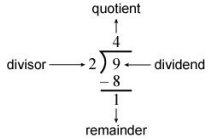
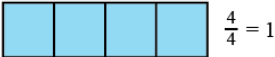
Term	Definition	Example
rectangle	A quadrilateral with four right angles. The opposite sides are parallel and congruent.	
rectangular prism	Also called a right rectangular prism. It is a prism with top and bottom bases that are congruent and parallel rectangles. All of the faces are rectangles.	
regroup	To make groups of tens, hundreds, thousands, etc. when adding, subtracting, or multiplying multi-digit numbers. Regrouping is also called partitioning.	Example: To subtract 7 from 33, regroup 1 ten from 33 as 10 ones.  $\begin{array}{r} 33 \\ - 7 \\ \hline 26 \end{array}$ Example: To add 14 and 8, regroup 10 ones from 4 + 8 = 12 as 1 ten.  $\begin{array}{r} 14 \\ + 8 \\ \hline 22 \end{array}$



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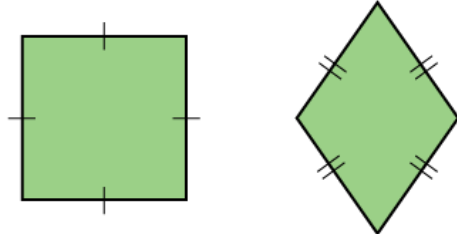
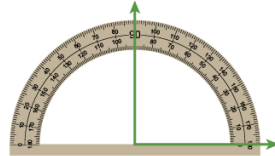
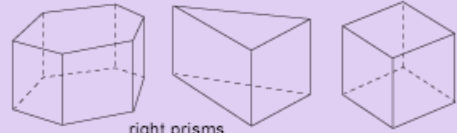
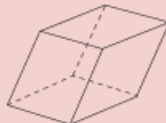
Term	Definition	Example
regular polygon	A regular polygon is a polygon that is equilateral (all sides equal in length) and equiangular (all angles have the same measure).	
related facts	Information that connects ideas or numbers.	Example: Related facts are often referred to as fact families. $\begin{array}{l} 2 \times 3 = 6 \\ 3 \times 2 = 6 \\ 6 \div 3 = 2 \\ 6 \div 2 = 3 \end{array}$$\begin{array}{l} 2 + 7 = 9 \\ 7 + 2 = 9 \\ 9 - 2 = 7 \\ 9 - 7 = 2 \end{array}$ Example: The clues were all related facts that helped Jack solve the mystery. 
remainder	The remainder is a whole number that is left after one whole number is divided by another and the divisor does not divide the dividend exactly.	
represent	To stand for or act in the place of.	Example: $\frac{4}{4}$ represents 4 shaded parts of 4 total parts of a whole. 



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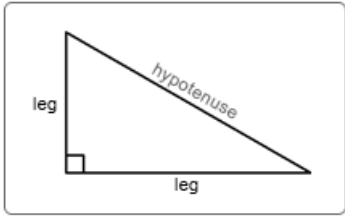
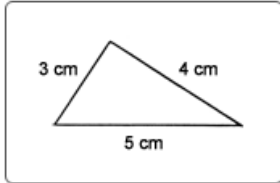
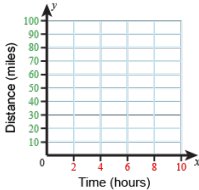
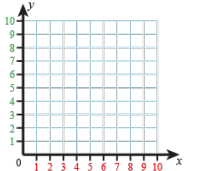
Term	Definition	Example
result	An outcome, consequence, or conclusion; something that happens because of something else.	Example: Adding two integers will result in an integer sum. $-8 + 7 = -1$ Example: The result of combining vinegar and baking soda will be a chemical reaction. 
rhombus	A quadrilateral with four congruent sides. A rhombus with right angles is a square.	
right angle	An angle that measures 90°.	
right prism	A prism whose lateral faces form right angles with the bases. If the faces are not at right angles to the bases, then the prism is called an oblique prism.	 right prisms  This figure is a prism but not a right prism.



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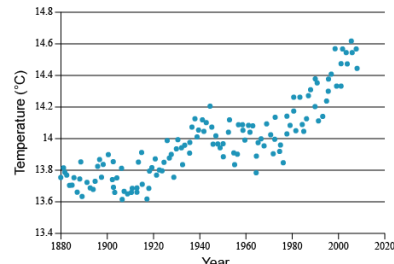
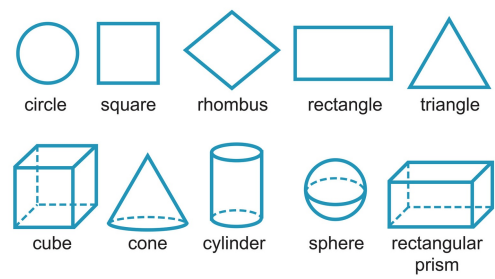
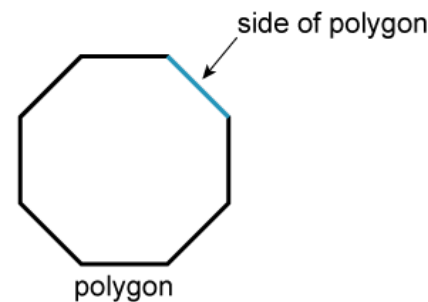
Term	Definition	Example															
right triangle	A triangle that has one right or 90° angle.																
round (a value)	A method of approximating a number to a specific place value. The result of rounding is an estimate.	<table border="1"><thead><tr><th>Number</th><th>Rounding Place</th><th>Rounded Number</th></tr></thead><tbody><tr><td>6,574.6</td><td>ones</td><td>6,575</td></tr><tr><td></td><td>tens</td><td>6,570</td></tr><tr><td></td><td>hundreds</td><td>6,600</td></tr><tr><td></td><td>thousands</td><td>7,000</td></tr></tbody></table>	Number	Rounding Place	Rounded Number	6,574.6	ones	6,575		tens	6,570		hundreds	6,600		thousands	7,000
Number	Rounding Place	Rounded Number															
6,574.6	ones	6,575															
	tens	6,570															
	hundreds	6,600															
	thousands	7,000															
scalene triangle	A triangle with no two sides the same length.																
scale (on a graph)	The scale is the size of the units on an axis of a coordinate grid or number line. The numbers are placed at fixed distances and tell how many.	 The horizontal scale on this graph is 2 and the vertical scale on this graph is 10.  The horizontal scale on the x-axis is 1 and the vertical scale on the y-axis is also 1.															



Vocabulary Word List

Grades 3-5



Term	Definition	Example
scatter plot	A graph of plotted points that show the relationship between two sets of data.	Observed Annual Global Temperatures  The scatter plot displays the relationship between the annual global temperatures and years from 1880 to 2010 using data from NASA.
shape	The form of an object.	Examples: Circle, square, rhombuse, rectangle, triangle, sphere, cubes, cylinder, rectangular prism, and cone  circle square rhombus rectangle triangle cube cone cylinder sphere rectangular prism
side of a polygon	The sides of a polygon are the line segments that form the polygon. All sides are connected to two other sides at their endpoints.	 side of polygon polygon



Vocabulary Word List

Grades 3-5



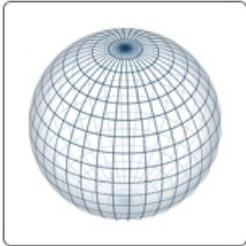
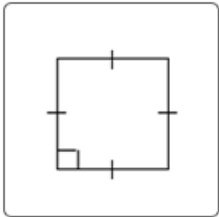
Term	Definition	Example
simplest form (fraction)	A fraction that has only 1 as a common factor of both the numerator and denominator.	Example: The fraction $\frac{8}{12}$ written in simplest form is $\frac{2}{3}$ because 2 and 3 have only 1 as a common factor. $\frac{8}{12} = \frac{8 \div 4}{12 \div 4} = \frac{2}{3}$
sixth	One of six equal parts of an object; describes the number 6 in a series.	Example: One slice of this pizza is one-sixth of the whole pizza.  $\frac{1}{6}$ OR one-sixth Example: Patty finished in sixth place in the track meet. 
solution	The answer to a problem; a liquid that contains two or more substances.	Example: The solution to the equation $-3x + 7 = -8$ is $x = 5$. $\begin{aligned} -3x + 7 &= -8 \\ -3x + 7 - 7 &= -8 - 7 \\ -3x &= -15 \\ \frac{-3x}{-3} &= \frac{-15}{-3} \\ x &= 5 \end{aligned}$ Example: Jill mixes orange juice and pineapple juice together to make a new solution: orange-pineapple juice. 
solve	To find the answer to a problem.	Example: Jim solved the equation $x + 4 = 16$ when he found that $x = 12$. $\begin{aligned} x + 4 &= 16 \\ x + 4 - 4 &= 16 - 4 \\ x &= 12 \end{aligned}$ Example: Sherry asked her friends to help her solve the puzzle. 



Vocabulary Word List

Grades 3-5



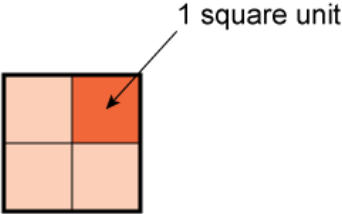
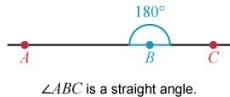
Term	Definition	Example
speed	A measurement of how fast an object is moving; a ratio comparing distance and time.	Example: Tadi rode his bike at a greater speed than his friends to get ahead of them.  Example: Rick flew from Kansas City, MO, to Newark, NJ. His flight was 2 hours long, and the distance between the two cities is 1,140 miles. Rick calculated the average speed of the airplane. $\begin{aligned}\text{rate} &= \frac{\text{distance}}{\text{time}} \\ &= \frac{1,140 \text{ mi}}{2 \text{ hr}} \\ &= 570 \text{ miles per hour}\end{aligned}$ 
sphere	A three-dimensional shape whose surface consists of all the points that are a given distance from a fixed point that is the center of the sphere.	
square	A quadrilateral that is equilateral and equiangular. A square is also a parallelogram, a rectangle, and a rhombus.	



Vocabulary Word List

Grades 3-5



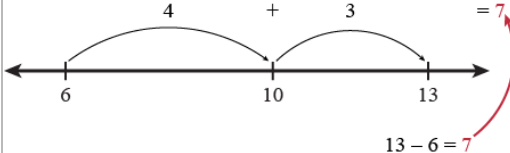
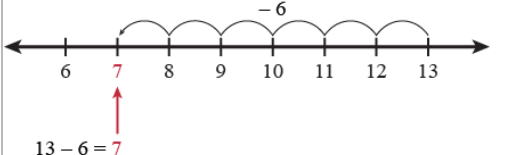
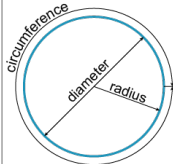
Term	Definition	Example
square unit	A square for measuring areas that has side lengths of one unit. For example, the area of a rectangle is the number of square units that fill the space inside a rectangle.	
standard form	To write in the most commonly accepted way.	Example: The standard form for a number uses the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 to write a number. Standard Form: 543 Word Form: five hundred forty-three Expanded Form: 500 + 40 + 3 Example: The standard form for one-variable equations shows an expression equal to 0. The x terms are listed in descending-degree order. $2x + 3 = 0$ $x^2 + 4x + 2 = 0$ Example: The standard form for a linear equation in two variables is $ax + by = c$, where the equation is written in simplest form. $5x + 2y = 8$ $x + 3y = 4$ $2x + 7y = 3$
straight angle	A straight angle is an angle that measures one-hundred eighty degrees. The rays form a straight line.	



Vocabulary Word List

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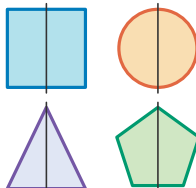
Term	Definition	Example										
subtract	When you subtract, you find the difference or distance between two numbers.	$13 - 6$ Method 1: Find distance from 6 to 13  Method 2: Take away 6 from 13 										
sum	The sum is what the result or answer is called when numbers are added.	$5 + 14 = 19$ ↑ sum ↓ $19 = 10 + 9$										
symbol	A mark, shape, sign, or character that represents an object or an idea.	Example: Symbols can be used to communicate an idea or feeling without using words. <table><tr><th>Symbol</th><th>Meaning</th></tr><tr><td></td><td>Parking Lot</td></tr><tr><td>></td><td>Greater Than</td></tr><tr><td>%</td><td>Percent</td></tr><tr><td></td><td>Weather Symbol for Sunny</td></tr></table> Example: The symbol π represents the ratio of the circumference to the diameter of a circle. The value of π is approximately equal to 3.14.  $\frac{\text{circumference}}{\text{diameter}} = \pi = 3.14159 \dots$	Symbol	Meaning		Parking Lot	>	Greater Than	%	Percent		Weather Symbol for Sunny
Symbol	Meaning											
	Parking Lot											
>	Greater Than											
%	Percent											
	Weather Symbol for Sunny											



Vocabulary Word List

Grades 3-5



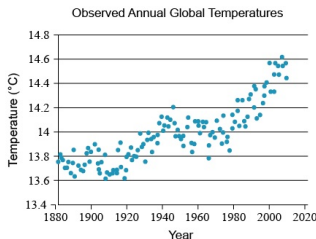
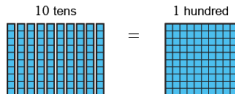
Term	Definition	Example												
symmetry	A figure is symmetrical if you can draw a line through it that produces two mirror images. See reflection symmetry and rotational symmetry.													
tally marks	A symbol used to keep count of something, often shown as little lines in a table.	Example: The table shows the number of nails of different lengths. <table><tr><th>Nail Lengths (in.)</th><th>Number of Nails</th></tr><tr><td>$\frac{1}{2}$</td><td></td></tr><tr><td>$\frac{3}{4}$</td><td></td></tr><tr><td>1</td><td></td></tr><tr><td>$1\frac{1}{4}$</td><td></td></tr><tr><td>$1\frac{1}{2}$</td><td></td></tr></table> The lines displayed under the Number of Nails column are tally marks.	Nail Lengths (in.)	Number of Nails	$\frac{1}{2}$		$\frac{3}{4}$		1		$1\frac{1}{4}$		$1\frac{1}{2}$	
Nail Lengths (in.)	Number of Nails													
$\frac{1}{2}$														
$\frac{3}{4}$														
1														
$1\frac{1}{4}$														
$1\frac{1}{2}$														



Vocabulary Word List

Grades 3-5



Term	Definition	Example										
temperature	A measurement of how hot or cold someone or something is.	Example: Jan's high temperature is evidence that she is sick.  Example: The annual global temperature has been increasing as the year increases. 										
ten	A value that defines and represents 10 units.	Example: There are 10 tens in 1 hundred.  Example: The digit 4 in 948 is in the tens place and represents a value of 40. <table><tr><td>Ten Thousands</td><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td></td><td></td><td>9</td><td>4</td><td>8</td></tr></table>	Ten Thousands	Thousands	Hundreds	Tens	Ones			9	4	8
Ten Thousands	Thousands	Hundreds	Tens	Ones								
		9	4	8								



Vocabulary Word List

Grades 3-5



Term	Definition	Example																																		
tenth	A value that defines and represents $\frac{1}{10}$ of a unit; divided equally into ten parts.	Example: The digit 2 in 1.24 is in the tenths place and represents a value of 0.2 or $\frac{2}{10}$. <table><tr><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td><td>Decimal Point</td><td>Tenths</td><td>Hundredths</td></tr><tr><td></td><td></td><td></td><td>1</td><td>.</td><td>2</td><td>4</td></tr></table> Example: Four-tenths of the rectangle is shaded green. <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths				1	.	2	4																				
Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths																														
			1	.	2	4																														
ten thousand	A value that defines and represents 10,000 units.	Example: The digit 2 in 24,789 is in the ten-thousands place and represents a value of 20,000. <table><tr><td>Ten Thousands</td><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td>2</td><td>4</td><td>7</td><td>8</td><td>9</td></tr></table>	Ten Thousands	Thousands	Hundreds	Tens	Ones	2	4	7	8	9																								
Ten Thousands	Thousands	Hundreds	Tens	Ones																																
2	4	7	8	9																																
term	Each part of an expression between operation symbols is called a <i>term</i> .	EXPRESSIONS $3a + c - 2b$ TERMS $4x + 7$ TERMS 7 ← CONSTANT																																		



Vocabulary Word List

Grades 3-5



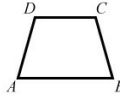
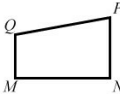
Term	Definition	Example																
third	One of three equal parts; describes the number 3 in a series.	Example: One-third of the rectangle is shaded blue.  Example: Jon recieved the third-place trophy in the music competition. 																
thousand	A value that defines and represents 1,000 units.	Example: The digit 4 in 4,356 is in the thousands place and represents a value of 4,000. <table><tr><td>Ten Thousands</td><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td></td><td>4</td><td>3</td><td>5</td><td>6</td></tr></table> Example: There were thousands of people at the celebration. 	Ten Thousands	Thousands	Hundreds	Tens	Ones		4	3	5	6						
Ten Thousands	Thousands	Hundreds	Tens	Ones														
	4	3	5	6														
thousandth	A value that defines and represents $\frac{1}{1,000}$ of a unit; divided equally into one thousand parts.	Example: The digit 3 in 4.563 is in the thousandths place and represents a value of 0.003 or $\frac{3}{1,000}$. <table><tr><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td><td>Decimal Point</td><td>Tenths</td><td>Hundredths</td><td>Thousandths</td></tr><tr><td></td><td></td><td></td><td>4</td><td>.</td><td>5</td><td>6</td><td>3</td></tr></table>	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths				4	.	5	6	3
Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths											
			4	.	5	6	3											



Vocabulary Word List

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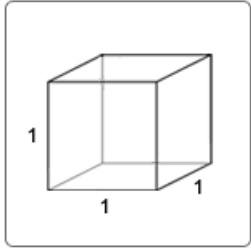
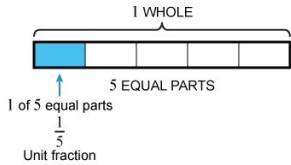
Term	Definition	Example				
total	The sum of two or more numbers or the product of two or more numbers.	Example: $4 + 5 = 9$ shows a total of 9 after adding the two numbers 4 and 5. Example: The total of $\frac{4}{6} + \frac{5}{6}$ is $\frac{9}{6}$. $\frac{4}{6} + \frac{5}{6} = \frac{4 + 5}{6} = \frac{9}{6}$ Example: The total of 4 groups of $\frac{2}{3}$ in each group: $4 \times \left(\frac{2}{3}\right) = \frac{4 \times 2}{3} = \frac{8}{3} \text{ and } \frac{8}{3} = 2\frac{2}{3}$				
trapezoid	A quadrilateral with at least one pair of parallel sides.	 $AB \parallel CD$  $QM \parallel PN$ Trapezoids				
twice	Two times the amount.	Example: Going to and from the store, Vicki traveled a distance of 5 miles twice.  Example: Sally is twice as old as Steve. If Steve is 5 years old, then Sally must be 10 years old. <table><tr><td><u>Steve's Age</u></td><td><u>Sally's Age</u></td></tr><tr><td>5</td><td>$5 \times 2 = 10$</td></tr></table>	<u>Steve's Age</u>	<u>Sally's Age</u>	5	$5 \times 2 = 10$
<u>Steve's Age</u>	<u>Sally's Age</u>					
5	$5 \times 2 = 10$					
unequal	Not equal to something in size, shape, or amount. The symbol for unequal is $\neq$.	Examples: $4 + 5 \neq 10$ and $\frac{1}{4} \neq \frac{1}{3}$ The two rectangles have unequal parts.  				



Vocabulary Word List

Grades 3-5



Term	Definition	Example
unit cube	A cube whose edges are 1 unit long. It is usually the unit of measure for volume.	
unit fraction	A unit fraction is a fraction with a numerator of 1. It represents one part of the total number of equal parts of a whole. Examples: $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{1}{3}$ are all unit fractions.	
unit (of measurement)	What is used to measure something as a standard of measurement.	Example: The unit that you use to measure something, such as inches, feet, yards, miles, meters, pounds, ounces, liters, time (in minutes, hours, months, years), or other measures.
unknown	Not aware of or familiar with; a quantity that is not defined.	Example: The value of the expression $6 + 5$ is unknown. $6 + 5 = \square$ Example: The cause of the fire was unknown.  Example: In the equation $x + 3 = 7$, the unknown value of x is 4. $\begin{aligned} x + 3 &= 7 \\ x + 3 - 3 &= 7 - 3 \\ x &= 4 \end{aligned}$



Vocabulary Word List

Grades 3-5



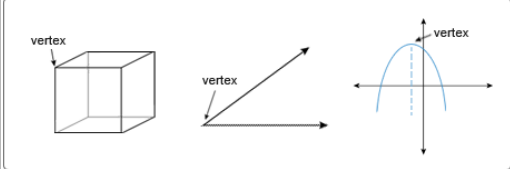
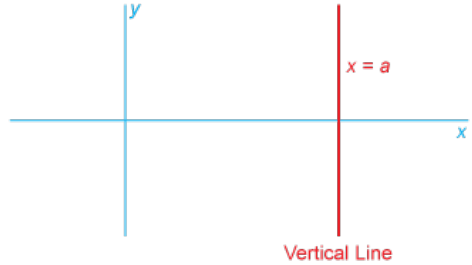
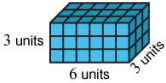
Term	Definition	Example										
value	How much something is worth; a number; to have a high opinion of something or someone.	Example: The digit 2 in 234 is in the hundreds place and represents a value of 200. <table><tr><td>Ten Thousands</td><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td></td><td></td><td>2</td><td>3</td><td>4</td></tr></table> Example: The directions said to insert a value less than 18 in the blank, so Emma wrote a 2. <u>2</u> < 18 Example: Iris values time spent with her mom. 	Ten Thousands	Thousands	Hundreds	Tens	Ones			2	3	4
Ten Thousands	Thousands	Hundreds	Tens	Ones								
		2	3	4								



Vocabulary Word List

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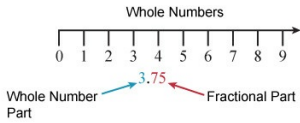
Term	Definition	Example
vertex	There are several definitions for vertex. (1) A point common to two sides of a polygon. (2) A point common to two edges of a polyhedron such as a prism or pyramid. (3) The apex of the tip of a cone. (4) A common point shared by two sides of an angle. (5) The greatest point or lowest point where the parabola intersects the axis of symmetry of the parabola. The plural of vertex is vertices.	
vertical	At right angles to the horizon. On an xy-coordinate grid, lines that run top to bottom. The vertical axis is the y-axis.	
volume	The measure of the interior space of a three-dimensional figure. Volume is usually measured in cubic units such as cubic centimeters or cubic inches. Capacity is the volume of a container and is measured in units of liquid measure such as liters or fluid ounces.	 The volume of this rectangular prism can be represented by $V = l \cdot w \cdot h = 6 \cdot 3 \cdot 3 = 54 \text{ units cubes.}$
week	A standard unit of measurement for time equal to seven days.	Example: There are 7 days in one week. 



Vocabulary Word List

Grades 3-5



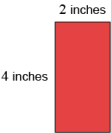
Term	Definition	Example
weight	How heavy an object is.	Example: One apple has a weight of about $\frac{1}{4}$ pound.  $\frac{1}{4}$ pound
whole	All of something.	Example: Jason used 1 whole cup of rice in his recipe. 
whole numbers	A whole number belongs to the set {0, 1, 2, 3, ...}. It is an infinite set. Whole numbers are a subset of integers and integers are a subset of real numbers. Real numbers are a subset of rational numbers. In a decimal number that is greater than 1, the part to the left of the decimal is referred to as the whole number part of the decimal. So in 3.75, three is the whole number part of the number.	



Vocabulary Word List

Grades 3-5



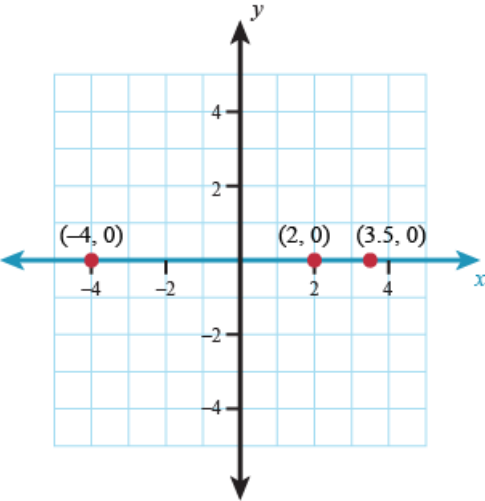
Term	Definition	Example
width	The measurement of an object from one side to the other.	Example: The rectangle has a width of 2 inches and a length of 4 inches. 
word form	Using words instead of digits to write a number.	Example: The number 543 can be written as five hundred forty-three in word form. Standard Form: 543 Word Form: five hundred forty-three Expanded Form: 500 + 40 + 3



Vocabulary Word List

Grades 3-5



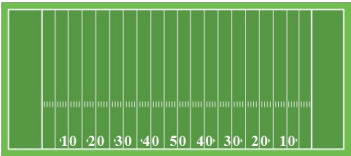
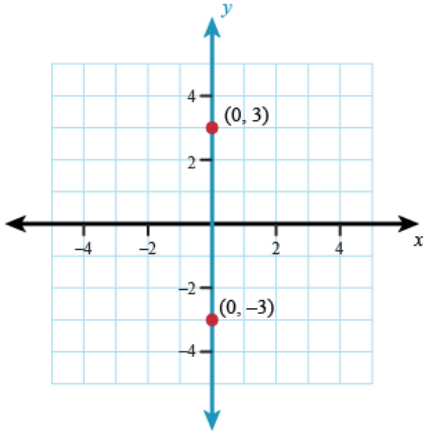
Term	Definition	Example
x-axis	The horizontal number line in a coordinate system. The coordinates of points on the x-axis have zero as the y-coordinate. Points $(2, 0)$, $(-4, 0)$, and $(3.5, 0)$ are ordered pairs for points on the x-axis.	



Vocabulary Word List

Grades 3-5



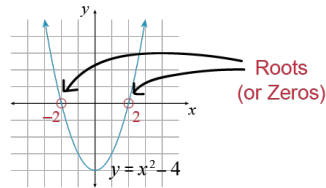
Term	Definition	Example
yard	A standard unit of measurement for length in the US customary system	Example: 1 yard is equivalent to 3 feet, or 36 inches.  Example: A football field is 100 yards long and an additional 20 yards for each of the end zones. 
y-axis	The vertical number line in a coordinate system. The coordinates of points on the y-axis have zero as the x-coordinate.	 Points (0, 3) and (0, -3) are ordered pairs on the y-axis.



Vocabulary Word List

Grades 3-5



Term	Definition	Example
year	The length of time that it takes Earth to go around the sun; equal to 365 days or 366 days during a leap year	Example: Lata celebrates her birthday in November each year.  Example: This calendar shows all the days of the year. 
zero	A value that represents having nothing; the word form of the number 0; where a function has the value of 0	Example: Mark had zero cookies before Sani gave him one.  Example: When you subtract five from five, the result is zero. $5 - 5 = 0$ Example: The zeros of $y = x^2 - 4$ are -2 and 2. 



Vocabulary Word List

Grades 3-5



Term	Definition	Example						
zero property	Zero Property of Addition: For all numbers, the sum of zero and any number is equal to that number ($n + 0 = n$). It is also called the <i>Identity Property of Zero in Addition</i>. Zero Property of Multiplication: For all numbers, the product of any number and zero is equal to zero ($n \times 0 = 0$).	<table><tr><th colspan="2">Zero Properties</th></tr><tr><th>Zero Property of Multiplication</th><th>Zero Property of Addition</th></tr><tr><td>$a \times 0 = 0$ $10 \times 0 = 0$</td><td>$a + (0) = a$ $0 + a = a$ $10 + 0 = 10$</td></tr></table>	Zero Properties		Zero Property of Multiplication	Zero Property of Addition	$a \times 0 = 0$ $10 \times 0 = 0$	$a + (0) = a$ $0 + a = a$ $10 + 0 = 10$
Zero Properties								
Zero Property of Multiplication	Zero Property of Addition							
$a \times 0 = 0$ $10 \times 0 = 0$	$a + (0) = a$ $0 + a = a$ $10 + 0 = 10$							