











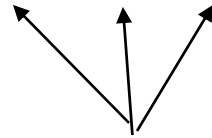


3rd Grade Hinojosa Math Vocabulary Words

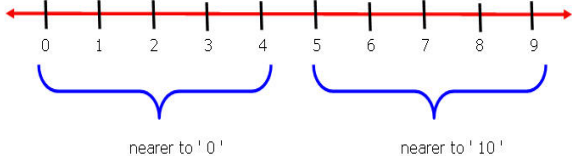

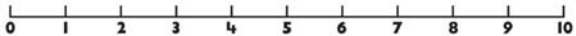
Topic 1- Numeration

Word	Definition	Picture
Digits	The symbol used to write the numbers 0,1,2,3,4,5,6,7,8, and 9 are called <u>digits</u> .	0,1,2,3,4,5,6,7,8,9
Standard Form	<u>Standard form</u> is a way to write a number showing only its digits.	3,845
Word Form	A number written in words is written in <u>word form</u> .	9,325 Nine thousand three hundred twenty five
Compare	When you <u>compare</u> numbers, you decide if one number is greater than or less than another number.	42<50 (42 is less than 50) 68> 42 (68 is greater than 42)

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Place Value	<p><u>Place value</u> is the value given to a place a digit has in a number.</p>	<p>Place value chart</p> <table><tr><td>Ten thousands</td><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td>7</td><td>4</td><td>3</td><td>5</td><td>2</td></tr></table> <table><tr><td></td><td></td><td></td><td></td></tr><tr><td>thousands</td><td>hundreds</td><td>tens</td><td>ones</td></tr></table>	Ten thousands	Thousands	Hundreds	Tens	Ones	7	4	3	5	2					thousands	hundreds	tens	ones
Ten thousands	Thousands	Hundreds	Tens	Ones																
7	4	3	5	2																
																				
thousands	hundreds	tens	ones																	
Expanded Form	<p>A number written as the sum of the values of its digits is written in <u>expanded form</u></p>	<p>2,476 = 2000 + 400 + 70 + 6</p>																		
Period	<p>A group of three digits in a number, separated by a comma, is called a <u>period</u>.</p>	<p>421,356,798</p> 																		
Order	<p>When you arrange numbers from least to greatest or from greatest to least, you are putting numbers in <u>order</u>.</p>	<p><u>Least</u> to <u>greatest</u> 12, 57, 89</p> <p><u>Greatest</u> to <u>Least</u> 89, 57, 12</p>																		

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Dollar Sign	A <u>dollar sign</u> (s) is a symbol used to indicate money.	\$
Round	When you <u>round</u> , you replace a number with a number that tells about how much or how many to the nearest ten, hundred, thousand, and so on.	 
Decimal Point	The dot used to separate dollars from cents in money is called the <u>decimal point</u> .	<p>2.62</p> <p>↑ Decimal Point</p>
Number line	A line that shows numbers in order using a scale is called a <u>number line</u> .	

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Topic 2- Number Sense: Adding and Subtracting Whole Numbers

Word	Definition	Picture
Commutative (order) Property of Addition	Numbers can be added in any order and the sum remains the same because of <u>Commutative (order) Property of Addition.</u>	You can change the order of addends. $4 + 7 = 7 + 4$
Associative (Grouping) Property of Addition	Addends can be regrouped and the sum remains the same because of the <u>Associative (grouping) Property of Addition.</u>	You can change the grouping of addends. $3 + (7 + 29) = (3 + 7) + 29$
Compatible numbers	Numbers that are easy to add, subtract, multiply, or divide mentally are called <u>compatible numbers.</u>	$255 \longrightarrow 250$ $322 \longrightarrow 325$

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Identity (Zero) Property of Addition	The <u>Identity (Zero)</u> <u>Property of</u> <u>Addition</u> states that the sum of any number and zero is that same number.	Adding 0 to a number doesn't change a number. $n + 0 = n$										
Estimate	To give an approximate number or answer is to <u>estimate</u> .	<div>68 round to 70 + 153 round to 150 <hr/>about 220</div>										
Inverse Operations	Two operations that undo each other are called <u>Inverse</u> <u>Operations</u> .	<table><tr><th>Operation</th><th>Inverse operation</th></tr><tr><td>$3 + 5 = 8$</td><td>$8 - 5 = 3$</td></tr><tr><td>$8 - 3 = 5$</td><td>$5 + 3 = 8$</td></tr><tr><td>$6 \times 7 = 42$</td><td>$42 \div 7 = 6$</td></tr><tr><td>$42 \div 6 = 7$</td><td>$7 \times 6 = 42$</td></tr></table>	Operation	Inverse operation	$3 + 5 = 8$	$8 - 5 = 3$	$8 - 3 = 5$	$5 + 3 = 8$	$6 \times 7 = 42$	$42 \div 7 = 6$	$42 \div 6 = 7$	$7 \times 6 = 42$
Operation	Inverse operation											
$3 + 5 = 8$	$8 - 5 = 3$											
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$6 \times 7 = 42$	$42 \div 7 = 6$											
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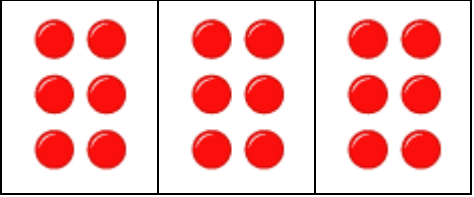

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Topic 3- Developing Proficiency: Adding and Subtracting Whole Numbers

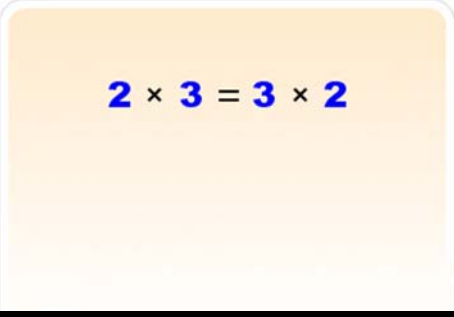
Word	Definition	Picture																
Regrouping	When you are <u>regrouping</u> numbers, you are naming whole numbers in a different way.	<div><div>Think: I must remember to write a 1 in the tens column when I make 1 ten.</div><table><tr><th>Tens</th><th>Ones</th></tr><tr><td>6</td><td>2</td></tr><tr><td>1</td><td>8</td></tr><tr><td>8</td><td>0</td></tr></table></div> <div><div>Think: I can regroup 1 ten as 10 ones. Now I can subtract 7 ones from 12 ones and 3 tens from 4 tens. The answer is 15.</div><table><tr><th>Tens</th><th>Ones</th></tr><tr><td>4</td><td>12</td></tr><tr><td>3</td><td>7</td></tr><tr><td>1</td><td>5</td></tr></table></div>	Tens	Ones	6	2	1	8	8	0	Tens	Ones	4	12	3	7	1	5
Tens	Ones																	
6	2																	
1	8																	
8	0																	
Tens	Ones																	
4	12																	
3	7																	
1	5																	
Unknown	A symbol that stands for a number in an equation is called an <u>unknown</u> .	<div><div><div></div> + <div></div> = 8</div><div>5 + <div></div> = 14</div></div>																
Equation	A number sentence that uses an equal sign (=) to show the value to its left is the same as the value to its right is called <u>equation</u> .	<table><tr><td>Addition 2 + 8 = 10</td><td>Subtraction 8 - 2 = 6</td></tr><tr><td>Multiplication 2 x 8 = 16</td><td>Division 16 ÷ <div></div> = 8</td></tr></table>	Addition 2 + 8 = 10	Subtraction 8 - 2 = 6	Multiplication 2 x 8 = 16	Division 16 ÷ <div></div> = 8												
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Multiplication 2 x 8 = 16	Division 16 ÷ <div></div> = 8																	

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Topic 4- Multiplication Meanings

Word	Definition	Picture
Multiplication	<u>Multiplication</u> is an operation that gives the total number when you join equal groups.	 $3 \times 6 = 18$ number of groups number in each group number in all
Factors	The numbers that are multiplied together to give a product are called <u>factors</u> .	$3 \times 6 = 18$ factor factor
Product	The answer to a multiplication problem is called the <u>product</u> .	$3 \times 6 = 18$ product
Array	An <u>array</u> is a way of displaying objects in equal rows and columns.	3 Columns  2 rows

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<p>Commutative (Order) Property Of Multiplication</p>	<p>Numbers can be multiplied in any order and the product will be the same because of the Commutative (order) property of Multiplication.</p>	 <p>$2 \times 3 = 3 \times 2$</p>
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Topic 5-Multiplication Facts: Use Patterns and Known Facts

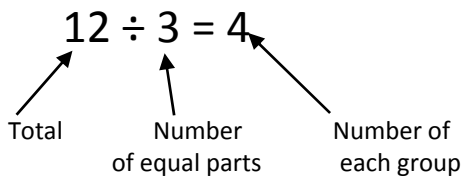
Word	Definition	Picture
Multiple	The product of a given number and any other whole number is called a <u>MULTIPLE</u> .	0, 4, 8, 12, and 16 are all multiples of 4 .
Zero Property of Multiplication	The <u>Zero Property of Multiplication</u> states that the product of any number and zero is zero.	<div>$8 \times 0 = 0$</div> <div>$0 \times 5 = 0$</div>
Associative (Grouping) Property of Multiplication	The <u>Associative (Grouping) Property of Multiplication</u> says that you can change the grouping of the factors and the product will be the same.	$(3 \times 2) \times 4 = 24$ $3 \times (2 \times 4) = 24$ $(3 \times 2) \times 4 = 3 \times (2 \times 4)$

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Identity (One) Property of Multiplication	The <u>Identity (One) Property of Multiplication</u> states that the product of any number and 1 is that number.	$4 \times 1 = 4$ $1 \times 4 = 4$ $22 \times 1 = 22$ $1 \times 22 = 22$
Distributive Property	The <u>Distributive Property</u> says that a multiplication fact can be broken apart into the sum of two other multiplication facts.	$7 \times 4 = (5 \times 4) + (2 \times 4)$ ↓ ↓ ↓ ↓ $28 = 20 + 8 = 28$

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Topic 6-Meaning of Division

Word	Definition	Picture
Division	<u>Division</u> is an operation that tells how many equal groups there are or how many are in each group.	 <p>The diagram shows the equation $12 \div 3 = 4$. Three arrows point from labels below to parts of the equation: an arrow from 'Total' points to the number 12, an arrow from 'Number of equal parts' points to the division symbol \div, and an arrow from 'Number of each group' points to the number 4.</p>

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Topic 7-Division Facts

Word	Definition	Picture
Fact Family	A <u>Fact Family</u> is a group of related facts using the same numbers.	$3 + 4 = 7$ $3 \times 4 = 12$ $4 + 3 = 7$ $4 \times 3 = 12$ $7 - 3 = 4$ $12 \div 3 = 4$ $7 - 4 = 3$ $12 \div 4 = 3$
Dividend	The <u>dividend</u> is the number to be divided.	$52 \div 4 = 13$ <div style="text-align: right;">dividend</div> $\begin{array}{r} 13 \\ 4 \overline{) 52} \end{array}$ <div style="text-align: right;">dividend</div>
Quotient	The <u>quotient</u> is the answer to a division problem	<div style="border: 1px solid black; padding: 2px; display: inline-block;">quotient</div> $\begin{array}{r} 13 \\ 4 \overline{) 52} \end{array}$
Divisor	The number by which another number is divided is called the <u>divisor</u> .	$\begin{array}{r} 13 \\ 4 \overline{) 52} \end{array}$ <div style="text-align: center;">Divisor</div>


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Topic 8- Number Sense: Multiplying 2-Digit By 1 Digit Numbers

Word	Definition	Picture
Partial Products	Products found by breaking one factor in a multiplication problem into ones, tens, and hundreds and then multiplying each of these by the other factor are called <u>Partial Products</u> .	$4 \times 24 = ?$ $(4 \times 20) + (4 \times 4)$ $4 \times 20 = 80$ $+ 4 \times 4 = 16$ <hr/> 96
Compensation	Choosing numbers close to the numbers in a problem to make the computation easier and then adjusting the answer for the numbers chosen is called <u>compensation</u> .	<div> <div>Easier to multiply 50</div> <div>Adjust, Subtract 3 groups of 2</div> </div> $ \begin{array}{r} 48 \\ \times 3 \\ \hline \end{array} \rightarrow \begin{array}{r} 50 \\ \times 3 \\ \hline \end{array} \rightarrow \begin{array}{r} 150 \\ - 6 \\ \hline \end{array} $

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Topic 9- Developing Proficiency: Multiplying 2 Digit by 1 Digit Numbers

Word	Definition	Picture
Two digit multiplication		 <p>2 Digit \times 1 Digit</p> <p>1. Multiply 4 times ones place 4×8. Regroup if necessary.</p> <p>2. Multiply 4 times tens place 4×3. Add # that is carried over.</p>

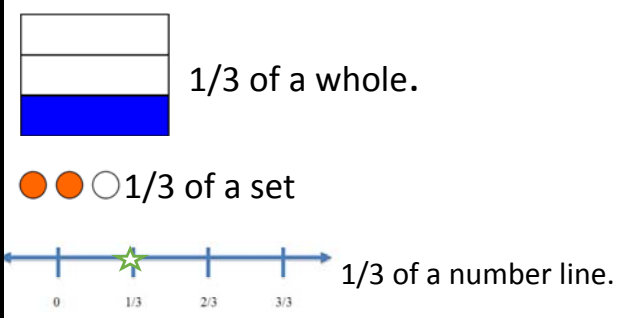
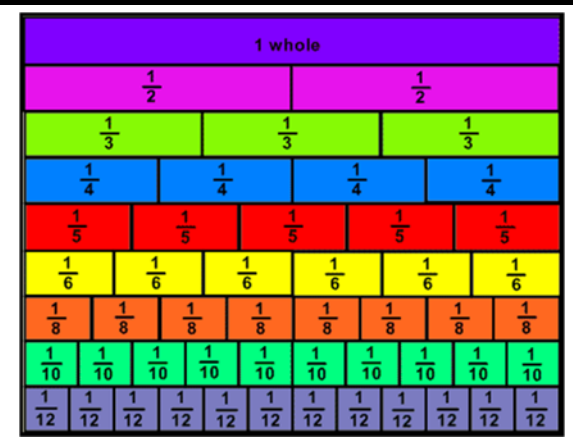
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Topic 10- Patterns and Equations

Word	Definition	Picture
Equal (equality)	When the two sides of an equation have the same value, the sides are <u>equal</u> . The sides have equality.	$8 \times 5 = 40$ $20 + 20 = 40$ $8 \times 5 = 20 + 20$
Not equal (\neq)	When the two sides of an equation do not have the same value, they are <u>not equal</u> (\neq).	$3 \times 6 = 18$ $4 \times 5 = 20$ They are <u>NOT EQUAL</u> $3 \times 6 \neq 4 \times 5$

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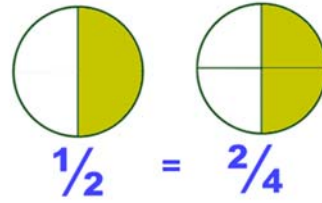
Topic 11- Understanding Fractions

Word	Definition	Picture
Fraction	A symbol such as $\frac{1}{2}$ used to name a part of a whole, a part of a set, or a location on a number line is called a <u>fraction</u> .	 <p>1/3 of a whole.</p> <p>1/3 of a set</p> <p>1/3 of a number line.</p>
Numerator	The <u>numerator</u> is the number above the fraction bar in a fraction.	$\frac{1}{2}$ <p>← The Numerator</p>
Denominator	The <u>denominator</u> is the number below the fraction bar in a fraction.	$\frac{1}{2}$ <p>← Denominator</p>
Unit fraction	A <u>unit fraction</u> represent on part of a whole that has been divided into equal parts. A <u>unit fraction</u> always has a numerator of 1.	

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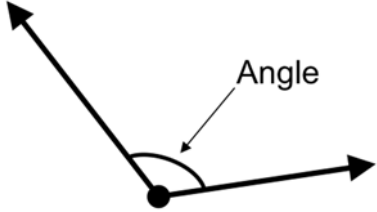
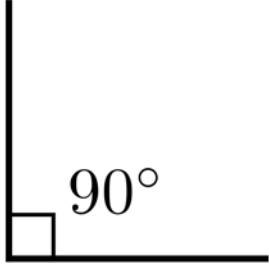
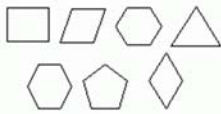
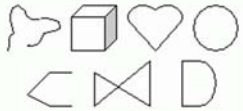
Equivalent
Fraction

Fraction that name the same part of whole or the same location on a number line are called **equivalent fractions**.



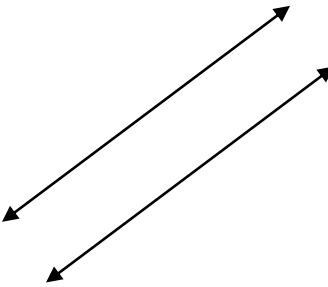
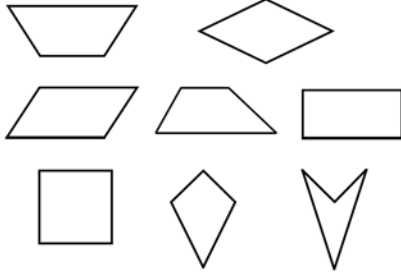


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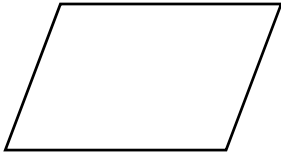

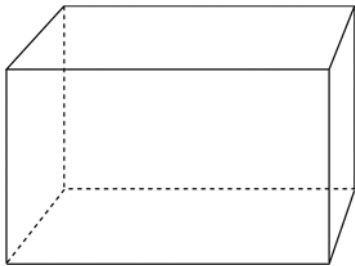
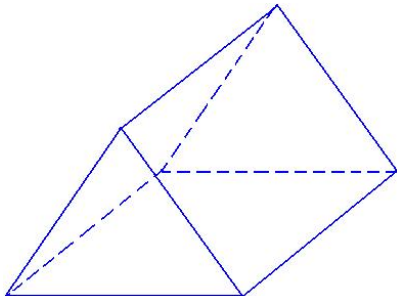
Topic 12- Shapes and Solids

Word	Definition	Picture
Angle	A figure that is formed by two rays having the same endpoint is called an <u>angle</u> .	
Right angle	A <u>right angle</u> forms a square corner.	
Polygon	A <u>polygon</u> is a closed figure made up of straight line segments.	<div> <div>Polygons</div>  </div> <div> <div>Not Polygons</div>  </div>

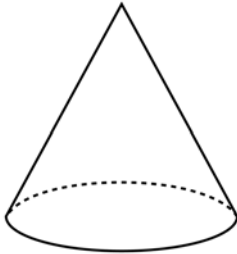
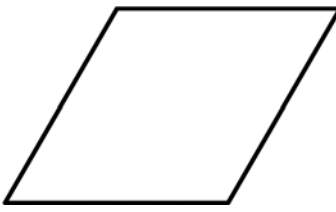
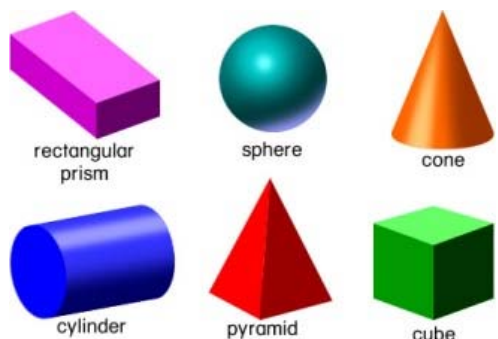
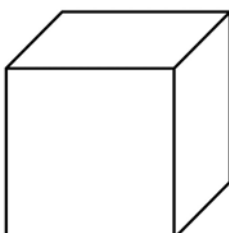
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Trapezoid	A quadrilateral with only one pair of parallel sides is called a <u>trapezoid</u> .	 One pair of parallel lines.
Rectangle	A <u>rectangle</u> is a parallelogram with four right angles.	 Four right angles
Parallel Lines	Lines that never cross each other are called <u>parallel lines</u> .	
Quadrilateral	A <u>quadrilateral</u> is a polygon with four sides.	


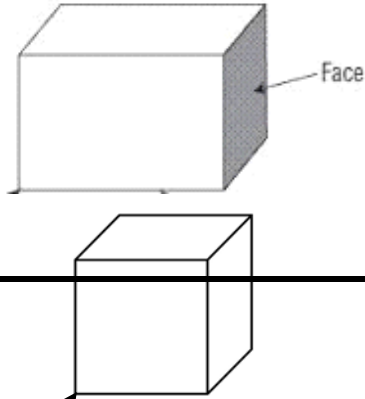
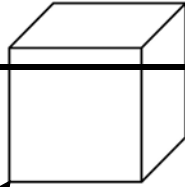

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Parallelogram	A quadrilateral with two pairs of parallel sides is called a <u>parallelogram</u> .	 <p>Two pairs of parallel sides.</p>
Square	A <u>square</u> is a parallelogram with four right angles and all sides the same length.	<p>four right angles</p>  <p>all sides are the same length</p>
Rectangular prism	A solid figure with six rectangular faces is called a <u>rectangular prism</u> .	
Triangular Prism	A solid figure with two triangular faces is called a <u>triangular prism</u> .	

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Cone	A <u>cone</u> is a solid figure with a circle as its base and a curved surface that meets at a point.	
Rhombus	A <u>rhombus</u> is a parallelogram with all sides the same length.	 All sides are the same length
Solid figure	A figure that has a length, width, and height is called a <u>solid figure</u> .	
Cube	A solid figure with six same size squares as its faces is called a <u>cube</u> .	

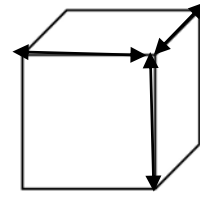
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Cylinder	A solid figure with two circular bases is called a <u>cylinder</u> .	
Face	The flat surface of a solid figure is called a <u>face</u> .	
Vertex	A <u>vertex</u> is the point where two rays meet to form an angle and the point where the sides of a polygon meet. The <u>vertex</u> is also the point where three or more edges meet in a solid figure and the pointed part of a cone.	
Sphere	A solid figure in the shape of a ball is called a <u>sphere</u> .	

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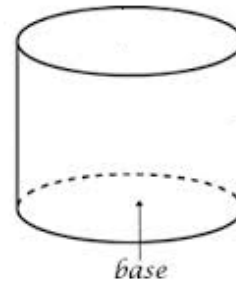
Edge

A line segment where two faces meet in a solid figure is called an **edge**.





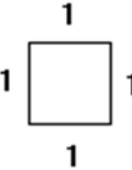
Bases

Flat surfaces of solids that can roll are called **bases**.







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Topic 13- Measurement- Perimeter and Area

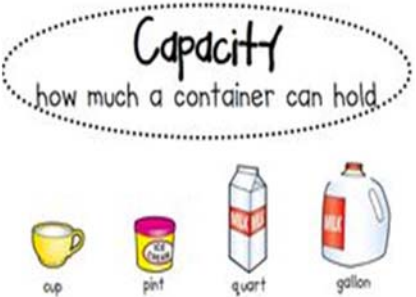
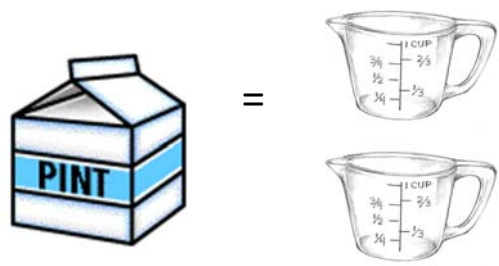


Word	Definition	Picture
Perimeter	The distance around a figure is called a <u>perimeter</u> .	 <p>The perimeter of this figure is 14.</p>
Area	<u>Area</u> is the number of square units needed to cover a region.	 <p>The area of this region is 16 squares.</p>
Square Units	A <u>square unit</u> is a square with sides 1 unit long, used to measure area.	 <p>1 square unit</p>

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Topic 14- Measurement: Capacity, Weight, Mass, and Times

Word	Definition	Picture
Cup	A cup (c) is a customary unit of capacity.	
Quart	A quart (qt) is a customary unit of capacity. One quart equals 2 pints.	
Weight	Weight is a measure of how heavy an object is.	 A scale can be used to measure weight.
Pound	A pound (lb) is a customary unit of weight. One pound equals 16 ounces.	 1 pound = 16 ounces

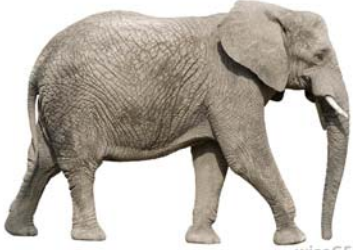



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Capacity	The amount a container can hold measured in liquid units is called capacity.	
Pint	A pint (pt) is a customary unit of capacity. One pint equals 2 cups.	 <p>1 pint = 2 cups</p>
Gallon	A gallon (gal) is a customary unit of capacity. One gallon equals 4 quarts.	 <p>1 gallon = 4 quarts</p>
Ounce	An ounce (oz) is a customary unit of weight.	 <p>A small piece of cheese weighs about 1 ounce.</p>

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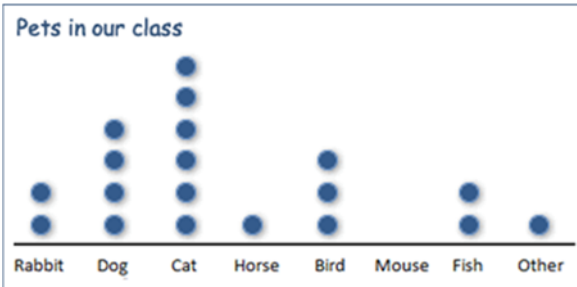











































Milliliter	A milliliter (ml) is a metric unit of capacity.	 <p>An eyedropper can be used to measure milliliters. 20 drops from an eyedropper have a capacity of about 1 ml.</p>
Mass	Mass is a measure of the amount of matter in an object.	 <p>A pan balance can be used to measure mass.</p>
Kilogram	A kilogram (kg) is a metric unit of mass. It is the amount of matter in an object. One kilogram equals 1,000 grams.	 <p>1 kilogram= 1,000 grams</p> <p>1,000 paper clips have a mass of about 1 kilogram.</p>
Time Interval	A time interval is an amount of time.	<p>35 min + ? min = 45 min</p> <p>35 min + 10 min= 45 min</p> <p>The time interval is 10 minutes.</p>

3rd Grade Hinojosa Math Vocabulary Words

Ton	A ton (t) is a customary unit of weight. One ton equals 2,000 pounds.	 1 ton = 2,000 pounds
Liter	A liter (l) is a metric unit of capacity. One liter equals 1,000 milliliters.	 1 liter = 1,000 milliliters
Gram	A gram (g) is a metric unit of mass. It is the amount of matter in an object.	 A paper clip has a mass of about
Elapsed Time	The total amount of time that passes from the starting time to the ending time is called elapsed time.	 4 hours and 20 minutes of elapsed time

3rd Grade Hinojosa Math Vocabulary Words

Topic 15- Data Analysis

Word	Definition	Picture																		
Survey	Collecting information by taking a number of people the same question and recording their answers is called a survey.	<table><tr><td>Yellow</td><td> </td><td>4</td></tr><tr><td>Red</td><td> </td><td>5</td></tr><tr><td>Blue</td><td> </td><td>6</td></tr><tr><td>Green</td><td> </td><td>1</td></tr><tr><td>Pink</td><td> </td><td>4</td></tr></table>	Yellow		4	Red		5	Blue		6	Green		1	Pink		4			
Yellow		4																		
Red		5																		
Blue		6																		
Green		1																		
Pink		4																		
Dot Plot	A dot plot is a way to organize data on a number line.	<div><p>Pets in our class</p><table><thead><tr><th>Pet</th><th>Number of Students</th></tr></thead><tbody><tr><td>Rabbit</td><td>2</td></tr><tr><td>Dog</td><td>3</td></tr><tr><td>Cat</td><td>5</td></tr><tr><td>Horse</td><td>1</td></tr><tr><td>Bird</td><td>2</td></tr><tr><td>Mouse</td><td>0</td></tr><tr><td>Fish</td><td>2</td></tr><tr><td>Other</td><td>1</td></tr></tbody></table></div>	Pet	Number of Students	Rabbit	2	Dog	3	Cat	5	Horse	1	Bird	2	Mouse	0	Fish	2	Other	1
Pet	Number of Students																			
Rabbit	2																			
Dog	3																			
Cat	5																			
Horse	1																			
Bird	2																			
Mouse	0																			
Fish	2																			
Other	1																			
Key	A key explains what each symbol represents in a pictograph.	<div><p>Favorite Ice Cream Flavors</p><table><tr><td>Cookie Dough</td><td>  </td></tr><tr><td>Chocolate</td><td>     </td></tr><tr><td>Strawberry</td><td> </td></tr><tr><td>Vanilla</td><td>  </td></tr></table><div><p>KEY</p><p> = 5 students</p></div></div>	Cookie Dough	  	Chocolate	     	Strawberry	 	Vanilla	  										
Cookie Dough	  																			
Chocolate	     																			
Strawberry	 																			
Vanilla	  																			

3rd Grade Hinojosa Math Vocabulary Words










Data

Pieces of information are called data.

Time and Distance	
Elapsed Time (hours)	Distance Traveled (kilometers)
0	0
1	50
2	100
3	150
4	200
5	250

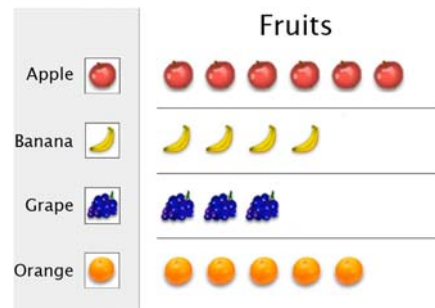
Frequency Table

A table used to show the number of times something occurs is called a frequency table.

Colour	Number of Smarties	Frequency
Green		7
Orange		8
Blue		5
Pink		6
Yellow		11
Red		8
Purple		7
Brown		3
Key:  = 2 smarties		

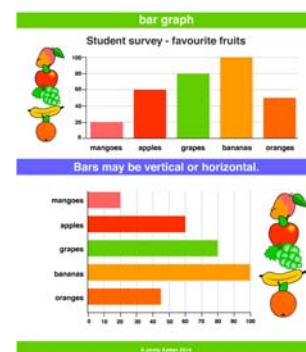
Pictograph

A graph using pictures or symbols to show data is called a pictograph.







Bar graph

A graph using bars to show data is called a bar graph.



3rd Grade Hinojosa Math Vocabulary Words

Topic 16- Personal Financial Literacy

Word	Definition	Picture
Spending	Spending is paying money for goods such as food and clothes or services such as a haircut.	
Unplanned spending	Unplanned Spending is paying money for goods and services you do not expect.	
Interest	Interest is money you pay when you borrow money, or money you receive for lending money.	 <p>(-) borrow or lend (+)</p>
Resources	Resources are things used to produce goods and services.	

3rd Grade Hinojosa Math Vocabulary Words

Income

Income is money earned for work people do.



Planned spending

Planned spending is paying money for goods and services you expect



Credit

When you buy something on credit you pay for it later.



Saving

Saving is putting money aside to use in the future.



3rd Grade Hinojosa Math Vocabulary Words

Charity

Charity is giving
money to help others

