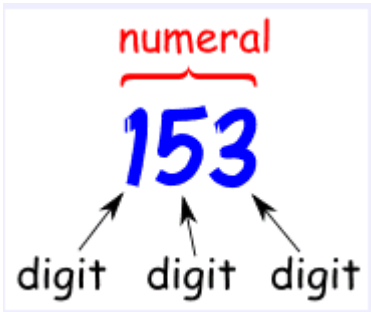
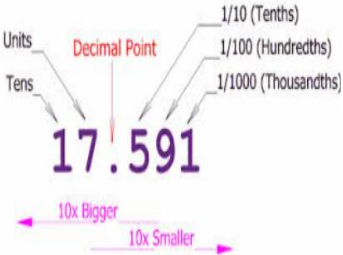

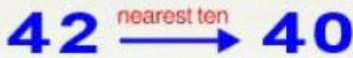

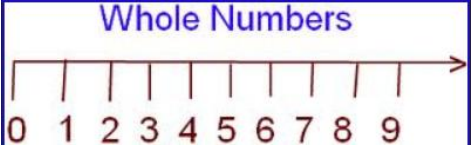
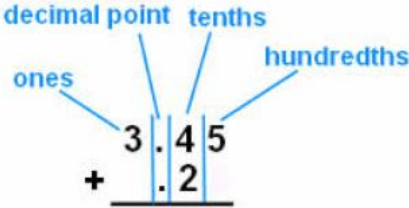
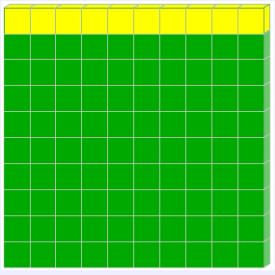


4th Grade Hinojosa Math Vocabulary Words

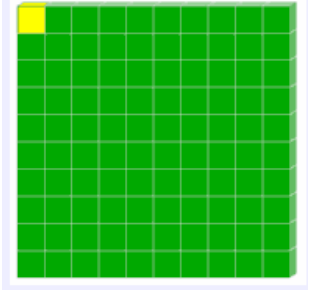
Topic 1

Word	Definition	Picture
Digit	A symbol used to make numerals. These are the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.	
Place value	The value of where the digit is in the number, such as units(ones), tens, hundreds, etc.	
Place Value chart	Organization of place value.	
Expanded notation	Writing the number to show the value of each digit.	<p>153</p> <p>$100 + 50 + 3$</p> <p>Or</p> <p>$(100 \times 1) + (10 \times 5) + 3$</p>

4th Grade Hinojosa Math Vocabulary Words

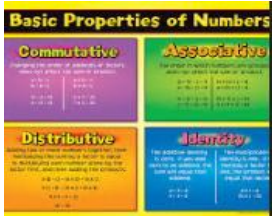
Round	Replacing a number with a number that tells about how many or how much.	
Value	<p>Money: how much something is worth.</p> <p>Mathematics: the result or 'output' of a calculation.</p>	 <p>Money: House has value.</p> <p>MATHEMATICS: 3×4 has the value of 12</p>
Whole numbers	The numbers 0, 1, 2, 3, 4, 5 and so on... There are no fractional or decimal parts and no negatives.	
Decimals	A number with one or more places to the right of the decimal point. The number to the right is less than 1. Based on 10.	
Tenths	Part in ten equal parts. $\frac{\#}{10}$	

4th Grade Hinojosa Math Vocabulary Words

Hundredths	Part in 100 equal parts. $\frac{\#}{100}$	
Compare	Decide if a number is greater than, less than or equal to another or other numbers.	$125 > 121$ $121 < 125$ $121 = 121$

4th Grade Hinojosa Math Vocabulary Words

Topic 2

Word	Definition	Picture
Properties of operations	A mathematical process. Rules followed in Math.	 <p>or PEMDAS</p>
Commutative Property	<p>Addition: numbers can be added in any order and the sum remains the same.</p> <p>Multiplication: numbers can be multiplied in any order and the product remains the same.</p>	$3+2 = 2+3$ $3 + 6 + 9 = 6 + 3 + 9 = 9 + 6 + 3$ $6 \times 2 = 2 \times 6$ $3 \times 4 \times 2 = 2 \times 4 \times 3 = 4 \times 2 \times 3$
Associative Property	<p>Addition: addends can be regrouped and the sum remains the same.</p> <p>Multiplication: Factors can be regrouped and the product remains the same.</p> <p>Moving parentheses does not change value.</p>	$(2+3)+4 = 2+(3+4)$ <p>All addition signs</p> $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ <p>All multiplication signs</p>
Identity Property	<p>Addition: the sum of any number and zero is that number.</p> <p>Multiplication: the product of any number and 1 is that number.</p>	$3 + 0 = 3$ $1,000 \times 1 = 1,000$

4th Grade Hinojosa Math Vocabulary Words

Addition

Finding the total, or sum, by combining two or more numbers.

Addition:

$$8 + 3 = 11$$

Diagram illustrating addition: 8 (Addend) + 3 (Addend) = 11 (Sum). Arrows point from the addends to the sum.

Sum

The answer to any addition problem.

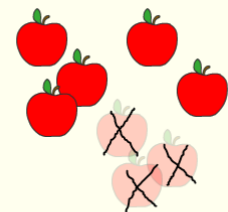
Addition:

$$8 + 3 = 11$$

Diagram illustrating addition: 8 (Addend) + 3 (Addend) = 11 (Sum). Arrows point from the addends to the sum.

Subtraction

Taking one number away from another.



$$8 - 3 = 5$$

Difference

The answer to any subtraction problem.

Subtraction

$$7 - 5 = 2$$

Diagram illustrating subtraction: 7 (minuend) - 5 (subtrahend) = 2 (difference). Arrows point from the minuend, subtrahend, and difference to their respective labels.

Variable

A symbol or letter that stands for a number.

$$n + 3$$

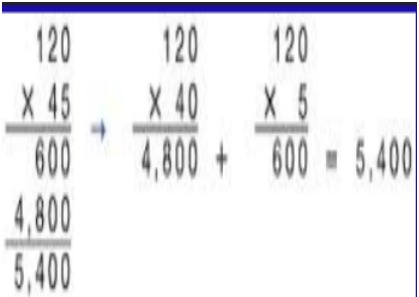
a number plus three

the variable

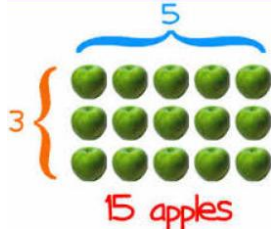
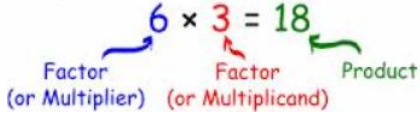
4th Grade Hinojosa Math Vocabulary Words

Topic 3		
Word	Definition	Picture
Commutative Property	<p>Addition: numbers can be added in any order and the sum remains the same.</p> <p>Multiplication: numbers can be multiplied in any order and the product remains the same.</p>	$3+2 = 2+3$ $3 + 6 + 9 = 6 + 3 + 9 = 9 + 6 + 3$ $6 \times 2 = 2 \times 6$ $3 \times 4 \times 2 = 2 \times 4 \times 3 = 4 \times 2 \times 3$
Associative Property	<p>Addition: addends can be regrouped and the sum remains the same.</p> <p>Multiplication: Factors can be regrouped and the product remains the same.</p> <p>Moving parentheses does not change value.</p>	$(2+3)+4 = 2+(3+4)$ All addition signs $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ All multiplication signs
Identity Property	<p>Addition: the sum of any number and zero is that number.</p> <p>Multiplication: the product of any number and 1 is that number.</p>	$3 + 0 = 3$ $1,000 \times 1 = 1,000$
Zero Property of Multiplication	The product of any number and zero is zero.	$2,000 \times 0 = 0$ $123 \times 0 = 0$

4th Grade Hinojosa Math Vocabulary Words

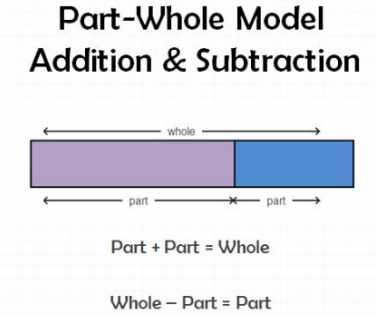
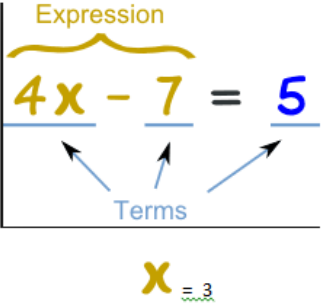

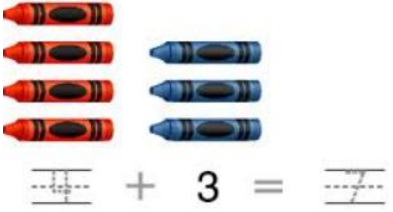
Distributive Property	<p>Multiplying a sum (or difference) by a number is the same as multiplying each number in the sum (or difference) by that number and adding (or subtracting) the products.</p>	$3 \times (2 + 4) = 3 \times 2 + 3 \times 4$ $5(12 - 3) = 5(12) - 5(3)$
Solve	<p>Find a solution to an equation.</p>	$X - 2 = 4$ $X = 6$
Partial products	<p>A method of doing multiplication in math, factors are broken into smaller parts, then multiplied and then products are added.</p>	
Mental math	<p>Calculations that are done in a person's head without the guidance of pencil and paper, calculators or other aids.</p>	<p>for $46 + 33$ the numbers are split to become:</p> $\begin{array}{r} (40 + 30 + 6 + 3) = \\ 70 \quad + \quad 9 = \\ 79 \end{array}$

4th Grade Hinojosa Math Vocabulary Words

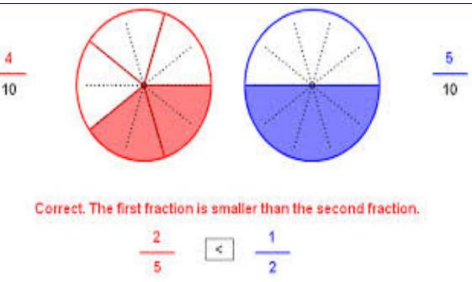


<p>Multiplication/ multiply</p>	<p>To calculate the result of repeated additions of two numbers.</p>	$5 + 5 + 5 = 5 \times 3$ 
<p>Product</p>	<p>The answer to any multiplication problem.</p>	<p>Multiplication:</p> $6 \times 3 = 18$ 
<p>Numerical expressions</p>	<p>Numbers, symbols and operators (such as + and ×) grouped together that show the value of something.</p>	$3 + 2 = 5$ $10 \times 4 = 40$ $6 - 2 = 4$

4th Grade Hinojosa Math Vocabulary Words

Topic 4

Word	Definition	Picture
Strip diagram	A tool used to help understand and solve word problems. It is also known as a bar diagram or a tape diagram.	<p>Part-Whole Model Addition & Subtraction</p>  <p>Part + Part = Whole</p> <p>Whole - Part = Part</p>
Unknown quantity	A symbol or letter, such as x, that represent a number in an expression or equation. Also known as variable.	<p>Expression</p>  <p>Terms</p> <p>$x = 3$</p>
Values	<p>Money: how much something is worth.</p> <p>Mathematics: the result or 'output' of a calculation.</p>	 <p>Worth \$\$</p> <p>Or</p> <p>$3 \times 4 = 12$</p>
Concrete model	Something that exists physically in the world and that generally can be manipulated.	 <p>$4 \div 2 + 3 = 7$</p>

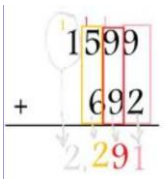
4th Grade Hinojosa Math Vocabulary Words

<p>Pictorial model</p>	<p>Representation illustrated by pictures.</p>	
<p>Reasonableness</p>	<p>Logical, validate the solution by verifying the answer.</p>	<p>After solving a problem, go back and check your answer in the problem. Does your answer make sense?</p>
<p>Symbolic representation</p>	<p>A pattern or image used instead of words. Creating a number sentence to solve a word problem.</p>	 $\begin{aligned} c + 5b &= 51 \\ 4c - j &= 12 \\ 3b + 3j &= 177 \end{aligned}$
<p>Arrays</p>	<p>A way of displaying objects in rows and columns.</p>	

4th Grade Hinojosa Math Vocabulary Words

Algorithm/
Standard
Algorithm

A step-by-step
solution to a problem.



The diagram shows the addition of 1599 and 692. The numbers are aligned by place value. A vertical line separates the numbers from the sum. The sum is 2291. The text "Addition-Right to Left" is written below the sum.

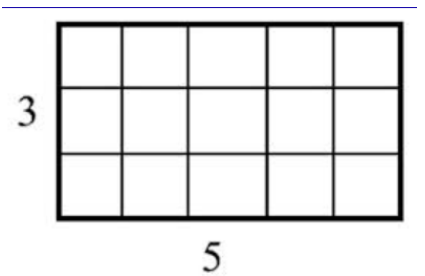
1599
+ 692

2291

Addition-Right to Left

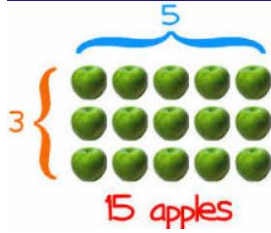
Area models

Size of a surface
shown by an
illustration.



4th Grade Hinojosa Math Vocabulary Words

Topic 5

Word	Definition	Picture
Mental math	Calculations that are done in a person's head without the guidance of pencil and paper, calculators or other aids.	<p>for $46 + 33$ the numbers are split to become:</p> $\begin{array}{r} (40 + 30 + 6 + 3) = \\ 70 \quad + \quad 9 = \\ 79 \end{array}$
Multiplication/ multiply	To calculate the result of repeated additions of two numbers.	$5 + 5 + 5 = 5 \times 3$ 
Product	The answer to any multiplication problem.	<p>Multiplication:</p> $\begin{array}{c} 6 \times 3 = 18 \\ \text{Factor} \quad \text{Factor} \quad \text{Product} \\ \text{(or Multiplier)} \quad \text{(or Multiplicand)} \end{array}$
Whole number	The numbers with no fractional or decimal part and no negatives.	$\{0, 1, 2, 3, \dots 100\}$ etc....

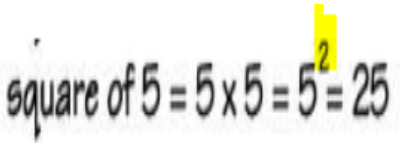

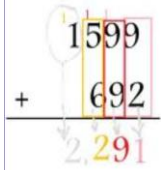
4th Grade Hinojosa Math Vocabulary Words

Compatible number	Numbers that are close in value to the actual numbers, and which make it easy to do mental arithmetic.	<div data-bbox="1114 239 1471 506" data-label="Equation-Block"> $23 + 74$ <p>Compatible</p> $25 + 75 = 100$ </div>
Partial products	A method of doing multiplication in math , factors are broken into smaller parts, then multiplied and then products are added.	<div data-bbox="1078 604 1492 898" data-label="Equation-Block"> $\begin{array}{r} 120 \\ \times 45 \\ \hline 600 \\ 4,800 \\ \hline 5,400 \end{array} \rightarrow \begin{array}{r} 120 \\ \times 40 \\ \hline 4,800 \end{array} + \begin{array}{r} 120 \\ \times 5 \\ \hline 600 \end{array} = 5,400$ </div>
Perfect squares	A number that is the product of a counting number multiplied by itself.	<div data-bbox="1086 1041 1471 1178" data-label="Equation-Block"> <p>square of 5 = $5 \times 5 = 5^2 = 25$</p> </div>
Round	Replacing a number with a number that tells about how many or how much.	<div data-bbox="1065 1335 1507 1495" data-label="Equation-Block"> $42 \xrightarrow{\text{nearest ten}} 40$ </div>

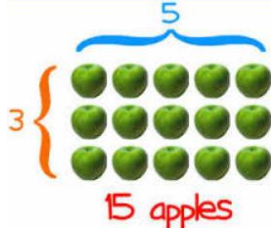
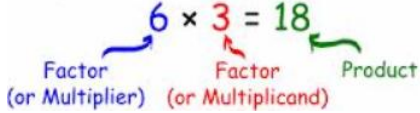
4th Grade Hinojosa Math Vocabulary Words

<p>Commutative Property</p>	<p>Addition: numbers can be added in any order and the sum remains the same.</p> <p>Multiplication: numbers can be multiplied in any order and the product remains the same.</p>	<p>$3+2 = 2+3$</p> <p>$3 + 6 + 9 = 6 + 3 + 9 = 9 + 6 + 3$</p> <p>$6 \times 2 = 2 \times 6$</p> <p>$3 \times 4 \times 2 = 2 \times 4 \times 3 = 4 \times 2 \times 3$</p>
<p>Associative Property</p>	<p>Addition: addends can be regrouped and the sum remains the same.</p> <p>Multiplication: Factors can be regrouped and the product remains the same.</p> <p>Moving parentheses does not change value.</p>	<p>$(2+3)+4 = 2+(3+4)$</p> <p>All addition signs</p> <p>$(2 \times 3) \times 4 = 2 \times (3 \times 4)$</p> <p>All multiplication signs</p>

4th Grade Hinojosa Math Vocabulary Words

Topic 6		
Word	Definition	Picture
Perfect squares	A number that is the product of a counting number multiplied by itself.	
Arrays	A way of displaying objects in rows and columns.	
Expanded notation	Writing the number to show the value of each digit	<p>153</p> <p>$100 + 50 + 3$</p> <p>Or</p> <p>$(100 \times 1) + (10 \times 5) + 3$</p>
Algorithm/ Standard Algorithm	A step-by-step solution to a problem.	 <p>Addition-Right to Left</p>

4th Grade Hinojosa Math Vocabulary Words

Multiplication/ multiply	To calculate the result of repeated additions of two numbers	$5 + 5 + 5 = 5 \times 3$ 
Product	The answer to any multiplication problem.	<p>Multiplication:</p> 
Identity Property	<p>Addition: the sum of any number and zero is that number.</p> <p>Multiplication: the product of any number and 1 is that number.</p>	$3 + 0 = 3$ $1,000 \times 1 = 1,000$
Zero Property of Multiplication	The product of any number and zero is zero.	$2,000 \times 0 = 0$ $123 \times 0 = 0$

4th Grade Hinojosa Math Vocabulary Words

Distributive Property


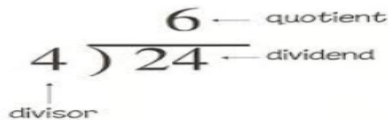
Multiplying a sum (or difference) by a number is the same as multiplying each number in the sum (or difference) by that number and adding (or subtracting) the products.

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

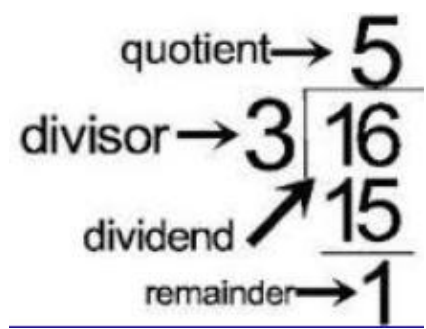
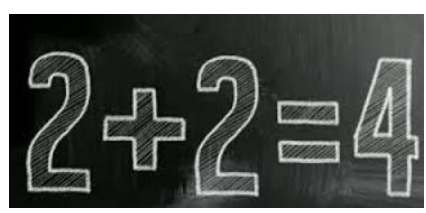
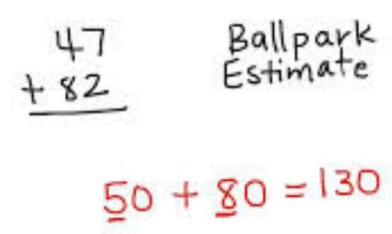

$$5(12 - 3) = 5(12) - 5(3)$$

4th Grade Hinojosa Math Vocabulary Words

Topic 7

Word	Definition	Picture
Division/divide	An operation to find the number in each group or the number of equal groups	 $6 \div 3 = 2$
Dividend	The number that is being divided	 <div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> $\text{Dividend} \div \text{Divisor} = \text{Quotient}$ $\begin{array}{r} \text{Quotient} \\ \text{Divisor} \overline{) \text{Dividend}} \end{array}$ </div>
Divisor	The number by which another number is divided.	<div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> $\text{Dividend} \div \text{Divisor} = \text{Quotient}$ $\begin{array}{r} \text{Quotient} \\ \text{Divisor} \overline{) \text{Dividend}} \end{array}$ </div>
Quotient	The answer to any division problem.	<div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> $\text{Dividend} \div \text{Divisor} = \text{Quotient}$ $\begin{array}{r} \text{Quotient} \\ \text{Divisor} \overline{) \text{Dividend}} \end{array}$ </div>

4th Grade Hinojosa Math Vocabulary Words

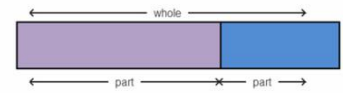
Remainder	The amount that is left after dividing a number into equal parts.	
Equation	A number sentence that uses the equal sign (=) to show that two expressions have the same value.	
Estimate	To give an approximate value rather than an exact answer.	
Fluency	Quickly and accurately.	

4th Grade Hinojosa Math Vocabulary Words

Strip diagram

A tool used to help understand and solve word problems. It is also known as a bar diagram or a tape diagram.

Part-Whole Model
Addition & Subtraction



Part + Part = Whole

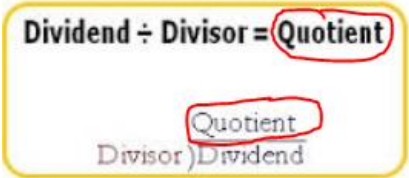
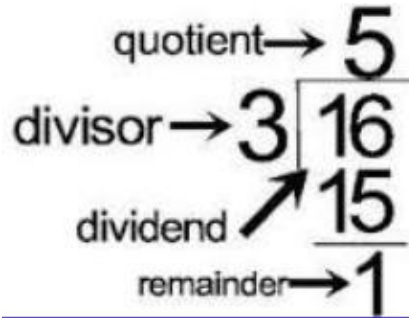
Whole – Part = Part

4th Grade Hinojosa Math Vocabulary Words

Topic 8

Word	Definition	Picture
Partial quotients	A way to divide that finds quotients in parts until only a remainder, if any, is left.	$\begin{array}{r} 12 \overline{) 195} \\ \underline{-120} 10 \\ 75 \\ \underline{-60} 5 \\ 15 \\ \underline{-12} +1 \\ 3 \end{array}$
Division/divide	An operation to find the number in each group or the number of equal groups	$6 \div 3 = 2$
Dividend	The number that is being divided.	<div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> $\text{Dividend} \div \text{Divisor} = \text{Quotient}$ $\begin{array}{r} \text{Quotient} \\ \text{Divisor} \overline{) \text{Dividend}} \end{array}$ </div>
Divisor	The number by which another number is divided.	<div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> $\text{Dividend} \div \text{Divisor} = \text{Quotient}$ $\begin{array}{r} \text{Quotient} \\ \text{Divisor} \overline{) \text{Dividend}} \end{array}$ </div>

4th Grade Hinojosa Math Vocabulary Words

Quotient	The answer to any division problem.	
Remainder	The amount that is left after dividing a number into equal parts.	

4th Grade Hinojosa Math Vocabulary Words

Topic 9

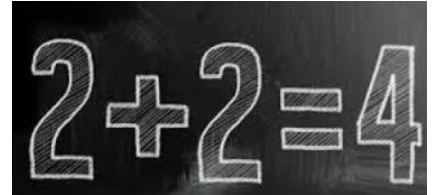
Word

Definition

Picture

Equation

A number sentence that uses the equal sign (=) to show that two expressions have the same value.



Solve

Find a solution to an equation.

$$X - 2 = 4$$

$$X = 6$$

Solutions

The value of the **variable** that makes an equation true.

$$x + 2 = 5$$

$$x + 2 - 2 = 5 - 2$$

$$x = 3$$

Rules

A mathematical phrase that tells how numbers in a table are related.

Cell Phones

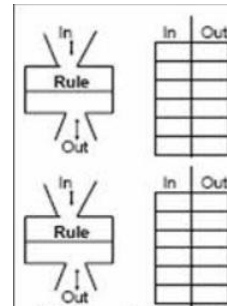
Number Produced		Number Defective
100	$\div 20$	5
200	$\div 20$	10
300	$\div 20$	15
400	$\div 20$	20
500	$\div 20$	25

RULE: Number Produced \div 20 = Number Defective

4th Grade Hinojosa Math Vocabulary Words

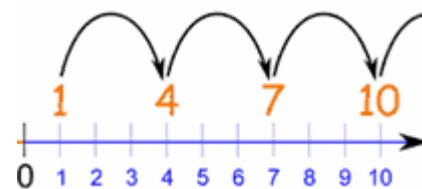
Input-output
table

A table that uses a rule to relate one set of numbers to another set of numbers.



Number pattern

A list of numbers that follow a certain sequence or pattern.



Sequence

A set of numbers that follows a pattern.

$+3$ $+3$ $+3$ $+3$
5, 8, 11, 14, 17, ..
Sequence A

Table

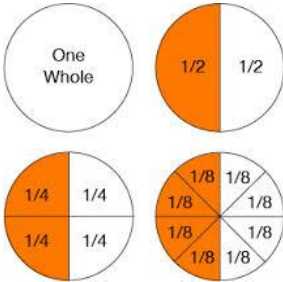



Numbers or quantities arranged in rows and columns.

"What sport do you play?"


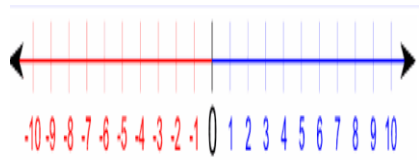
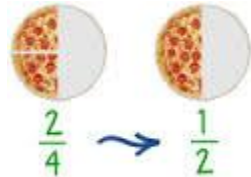
Sport	People
Soccer	106
Tennis	45
Gymnastics	54
Swimming	82
Track	68

4th Grade Hinojosa Math Vocabulary Words

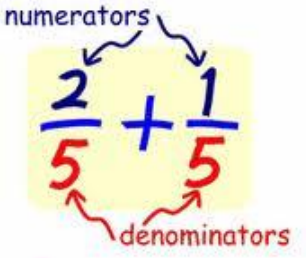
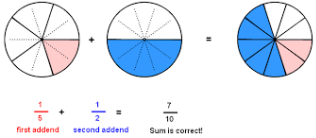
Topic 10

Word	Definition	Picture
Equivalent fractions	Fractions that name the same region, part of a set, or part of a segment.	 <p>The picture shows four circles. The top-left circle is labeled 'One Whole'. The top-right circle is divided into two equal halves, with one half shaded orange and labeled 1/2. The bottom-left circle is divided into four equal quadrants, with two quadrants shaded orange and labeled 1/4. The bottom-right circle is divided into eight equal sectors, with four sectors shaded orange and labeled 1/8.</p>
Fractions	Part of a whole.	 $\frac{3}{4}$ <p>The picture shows a pizza divided into four equal slices. Three slices are shaded red, and one slice is shaded gray. To the right of the pizza is the fraction 3/4, with the numerator 3 in blue and the denominator 4 in red.</p>
Numerator	The top number of the fractions which shows how many you have of what you are looking for.	 <p>The picture shows a fraction bar diagram for the fraction 2/7. The fraction is written as 2/7 with a red arrow pointing to the numerator 2. To the right of the fraction is a horizontal bar divided into seven equal segments. The first two segments are shaded green, and the remaining five segments are white.</p>
Denominator	The bottom number of the fraction which shows how many total equal parts you have.	 <p>The picture shows a fraction bar diagram for the fraction 2/7. The fraction is written as 2/7 with a red arrow pointing to the denominator 7. To the right of the fraction is a horizontal bar divided into seven equal segments. The first two segments are shaded green, and the remaining five segments are white.</p>

4th Grade Hinojosa Math Vocabulary Words

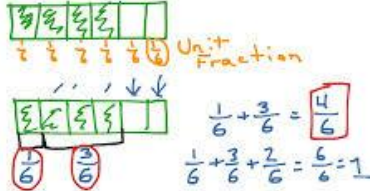
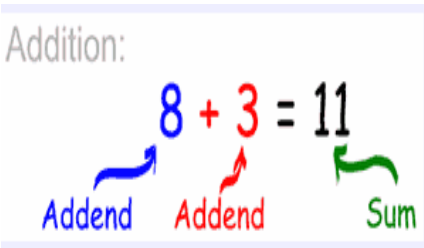
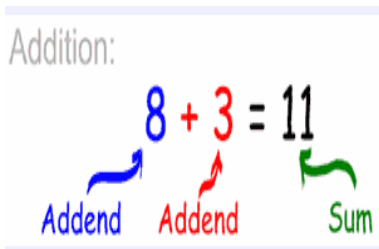
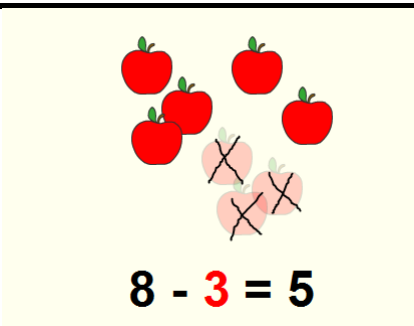
Unit Fractions	A fraction with a numerator of 1.	
Number line	A line with numbers placed in their correct position.	
Compare	Decide if a number is greater than, less than or equal to another or other numbers.	$125 > 121$ $121 < 125$ $121 = 121$ $\frac{1}{2} < 1$
Simplest form/ Reduced fraction	A fraction in which the numerator and denominator have no common factor other than 1.	

4th Grade Hinojosa Math Vocabulary Words




Common/Like denominators	Denominators that are the same.	 <p>These denominators are common (the same)</p>
Unlike denominators	Denominators that are different.	 <p>first addend + second addend = $\frac{7}{10}$ Sum is correct</p>
Least Common Multiple (LCM)	Finding the multiples of two or more numbers and identifying the least one they have in common.	<p>Multiples of 3: 0, 3, 6, 9, 12, 15, 18, 21, 24...</p> <p>Multiples of 4: 0, 4, 8, 12, 16, 20, 24, 28...</p> <p>The LCM of 3 and 4 is 12.</p>

4th Grade Hinojosa Math Vocabulary Words


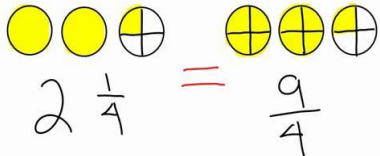
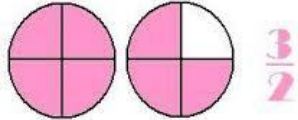
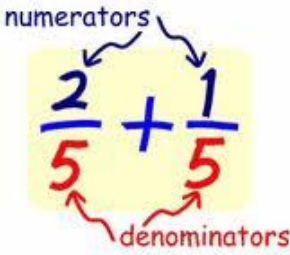
Topic 11

Word	Definition	Picture
Decompose	To break into parts.	
Addition	Finding the total, or sum, by combining two or more numbers.	
Sum	The answer to any addition problem.	
Subtraction	Taking one number away from another.	

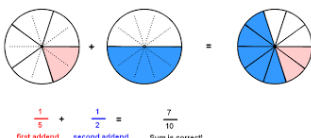
4th Grade Hinojosa Math Vocabulary Words

Difference	The answer to any subtraction problem.	<p>Subtraction</p> $\begin{array}{c} 7 - 5 = 2 \\ \nearrow \quad \uparrow \quad \nearrow \\ \text{minuend} \quad \text{subtrahend} \quad \text{difference} \end{array}$
Fractions	Part of a whole.	 $\frac{3}{4}$
Numerator	The top number of the fractions which shows how many you have of what you are looking for.	$\frac{2}{7}$ 
Denominator	The bottom number of the fraction which shows how many total equal parts you have.	$\frac{2}{7}$ 

4th Grade Hinojosa Math Vocabulary Words

Benchmark Fractions	A known fraction that is commonly used for estimating.	
Mixed Number	A number that has a whole number part and a fraction.	
Improper Fractions	A fraction whose numerator is greater than or equal to its denominator.	
Common/Like denominators	Denominators that are the same.	 <p>These denominators are common (the same)</p>

4th Grade Hinojosa Math Vocabulary Words

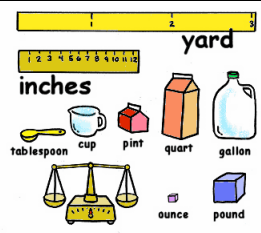
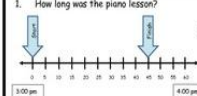

Unlike denominators	Denominators that are different.	 $\frac{1}{8} + \frac{1}{2} = \frac{7}{10}$ first addend second addend Sum is correct
Least Common Multiple (LCM)	Finding the multiples of two or more numbers and identifying the least one they have in common.	Multiples of 3: <u>0</u> , 3, 6, 9, <u>12</u> , 15, 18, 21, <u>24</u> ... Multiples of 4: <u>0</u> , 4, 8, <u>12</u> , 16, 20, <u>24</u> , 28 ... The LCM of 3 and 4 is 12.

4th Grade Hinojosa Math Vocabulary Words

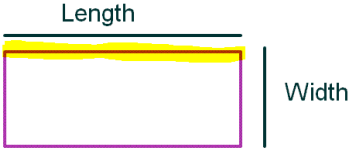


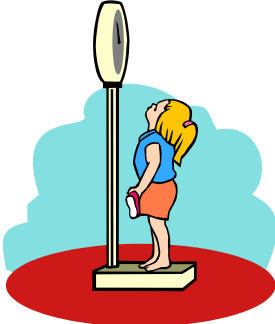
Topic 12

Word	Definition	Picture																																																			
Measurement systems	Set of <u>units of measurement</u> which can be used to specify anything which can be <u>measured</u> (Customary or Metric system).	<table><tr><th colspan="3">LENGTH</th></tr><tr><th>Standard</th><th></th><th>Metric</th></tr><tr><td>inch</td><td>comparative to</td><td>millimeter</td></tr><tr><td>foot</td><td>comparative to</td><td>centimeter</td></tr><tr><td>yard</td><td>comparative to</td><td>meter</td></tr><tr><td>mile</td><td>comparative to</td><td>kilometer</td></tr></table> <table><tr><th colspan="3">WEIGHT</th></tr><tr><th>Standard</th><th></th><th>Metric</th></tr><tr><td>ounce</td><td>comparative to</td><td>gram</td></tr><tr><td>pound</td><td>comparative to</td><td>kilogram</td></tr><tr><td>ton</td><td></td><td></td></tr></table> <table><tr><th colspan="3">CAPACITY / VOLUME</th></tr><tr><th>Standard</th><th></th><th>Metric</th></tr><tr><td>ounce</td><td>comparative to</td><td>milliliter</td></tr><tr><td>cup</td><td></td><td></td></tr><tr><td>quart</td><td>comparative to</td><td>liter</td></tr><tr><td>gallon</td><td></td><td></td></tr></table>	LENGTH			Standard		Metric	inch	comparative to	millimeter	foot	comparative to	centimeter	yard	comparative to	meter	mile	comparative to	kilometer	WEIGHT			Standard		Metric	ounce	comparative to	gram	pound	comparative to	kilogram	ton			CAPACITY / VOLUME			Standard		Metric	ounce	comparative to	milliliter	cup			quart	comparative to	liter	gallon		
LENGTH																																																					
Standard		Metric																																																			
inch	comparative to	millimeter																																																			
foot	comparative to	centimeter																																																			
yard	comparative to	meter																																																			
mile	comparative to	kilometer																																																			
WEIGHT																																																					
Standard		Metric																																																			
ounce	comparative to	gram																																																			
pound	comparative to	kilogram																																																			
ton																																																					
CAPACITY / VOLUME																																																					
Standard		Metric																																																			
ounce	comparative to	milliliter																																																			
cup																																																					
quart	comparative to	liter																																																			
gallon																																																					
Customary	The main system of weights and measures used in the United States and a few other countries. Also known as Standard system.	<p>Customary Units Chart</p> <table><tr><th>Length</th><th>Weight</th><th>Capacity</th><th>Time</th></tr><tr><td>12 in = 1 ft</td><td>16 oz = 1 lb</td><td>128 fl oz = 1 gal</td><td>60 sec = 1 min</td></tr><tr><td>3 ft = 1 yrd</td><td>2000 lb = 1 ton</td><td>2 pt = 1 qt</td><td>60 min = 1 hr</td></tr><tr><td>5,280 ft = 1 mi</td><td></td><td>8 pt = 1 gal</td><td>24 hr = 1 day</td></tr><tr><td>1,760 yrd = 1 mi</td><td></td><td>4 qt = 1 gal</td><td>7 days = 1 wk</td></tr><tr><td></td><td></td><td></td><td>52 wk = 1 yr</td></tr><tr><td></td><td></td><td></td><td>12 mon = 1 yr</td></tr><tr><td></td><td></td><td></td><td>365 days = 1 yr</td></tr></table>	Length	Weight	Capacity	Time	12 in = 1 ft	16 oz = 1 lb	128 fl oz = 1 gal	60 sec = 1 min	3 ft = 1 yrd	2000 lb = 1 ton	2 pt = 1 qt	60 min = 1 hr	5,280 ft = 1 mi		8 pt = 1 gal	24 hr = 1 day	1,760 yrd = 1 mi		4 qt = 1 gal	7 days = 1 wk				52 wk = 1 yr				12 mon = 1 yr				365 days = 1 yr																			
Length	Weight	Capacity	Time																																																		
12 in = 1 ft	16 oz = 1 lb	128 fl oz = 1 gal	60 sec = 1 min																																																		
3 ft = 1 yrd	2000 lb = 1 ton	2 pt = 1 qt	60 min = 1 hr																																																		
5,280 ft = 1 mi		8 pt = 1 gal	24 hr = 1 day																																																		
1,760 yrd = 1 mi		4 qt = 1 gal	7 days = 1 wk																																																		
			52 wk = 1 yr																																																		
			12 mon = 1 yr																																																		
			365 days = 1 yr																																																		
Metric	The decimal measuring system based on the meter, liter, and gram as units of length, capacity, and weight or mass.	<p><u>VOLUME</u></p> <p>• Liter Milliliter</p> <p><u>MASS</u></p> <p>• Kilogram Gram Milligram</p> <p><u>LENGTH</u></p> <p>• Kilometer Meter</p> <p>• Centimeter Millimeter</p>																																																			
Measure/ measurement	Finding a number that shows the size or amount of something.																																																				

4th Grade Hinojosa Math Vocabulary Words

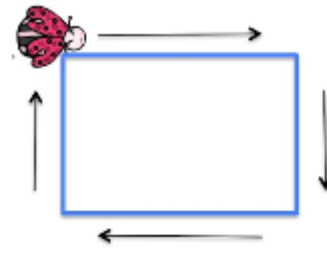
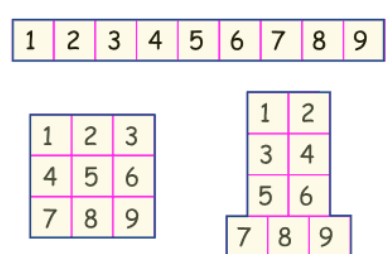
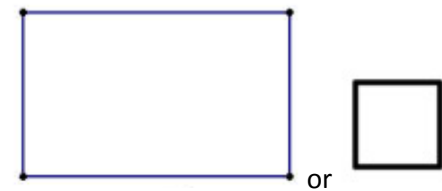
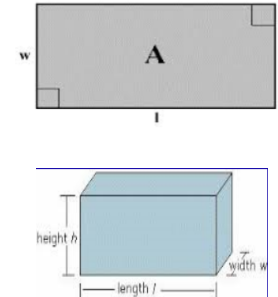
Units	Labels of measurement.	
Convert	A change in the form of a measurement, different units(same system of measurement), without a change in the size or amount.	<div>1 km= 1000 m</div> <div>2.3 km = _____ m</div> <div>2.3 km = <u>2300</u> m</div> <div>2.3 x 1000=2300</div>
Equivalent	Having the same value.	<div>2 minutes is equivalent to 120 seconds</div> <div>2 minutes = 120 seconds</div>
Intervals of time	A definite length of time marked by a start and finish.	<div> <div> <div>1. How long was the piano lesson?</div>  <div>45 minutes</div> </div> <div> <div>2. How long was the bike ride?</div>  <div>30 minutes</div> </div> </div>

4th Grade Hinojosa Math Vocabulary Words

<p>Length</p>	<p>Distance. How far from end to end.</p>	
<p>Liquid volumes/ Capacity</p>	<p>The space a liquid takes up.</p>	
<p>Mass</p>	<p>A measure of how much matter is in an object. Does not change in space or on Earth.</p>	
<p>Weight</p>	<p>A measure of how heavy an object is.</p>	

4th Grade Hinojosa Math Vocabulary Words

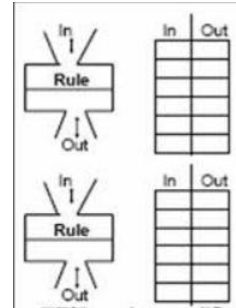
Topic 13

Word	Definition	Picture
Perimeter	The distance around a figure.	
Area	Size of a surface.	
Rectangles	A quadrilateral with 4 right angles.	
Dimensions	A measurement of length in one direction. Examples: length, width, depth and height are dimensions.	

4th Grade Hinojosa Math Vocabulary Words

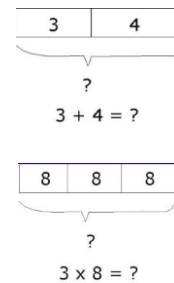
Input-output table

A table that uses a rule to relate one set of numbers to another set of numbers.



Models

A description of a system using mathematical concepts and language.



Multi-step problems

An applied math problem that requires more than one operation in order to solve.

Steven is reading a book that has **260 pages**. He read **35 pages** on Monday night, and **40 pages** on Tuesday night. How many pages does he have left to read?

260 pages tells you the total pages to be read.

35 pages is the amount read on Monday.

40 pages is the amount read on Tuesday.

How many pages does he have left to read? is the question you are being asked.

Most students recognize that they need to add together **35 + 40** to get the pages read so far. The danger is you might think you can stop there.

Adding **35 + 40** will tell you that Steven has read **75 pages** so far, but if you go back to check the question you are being asked, you will see that your answer does not match what you are being asked. You will have to take another step to get there.

Steven has read **75 pages** so far, but you are being asked what he has left to read, not what he has already read. To get your final answer, you must subtract what he has read from the total pages to be read: **260 - 75**. Steven has **185 pages** left to read.

$$260 - 75 = 185$$

4th Grade Hinojosa Math Vocabulary Words

Equations

A number sentence that uses the equal sign (=) to show that two expressions have the same value.

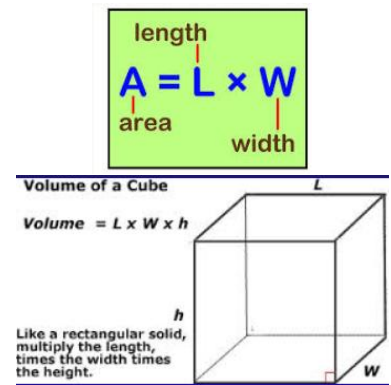


$$2 + 2 = 4$$

Formulas

Numbers and symbols that show how to work something out.

A special type of equation that shows the relationship between different variables.



Solve

Find a solution to an equation.

$$X - 2 = 4$$


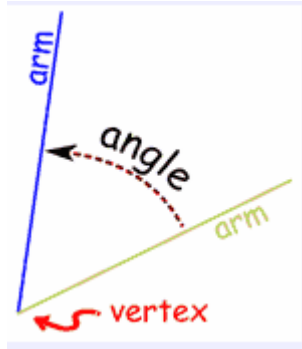
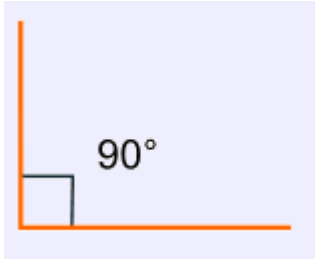
$$X = 6$$

Symbolic representation

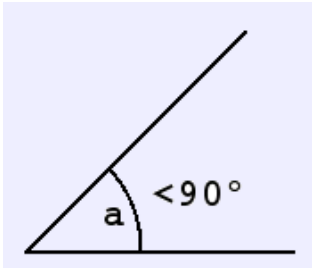
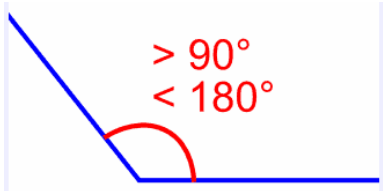
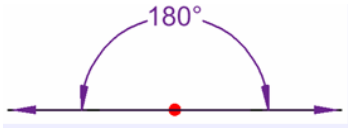
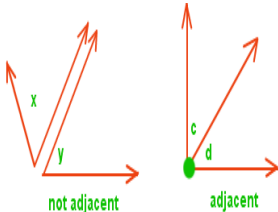
A pattern or image used instead of words. Creating a number sentence to solve a word problem.

$$\begin{aligned} c + 5b &= 51 \\ 4c - j &= 12 \\ 3b + 3j &= 177 \end{aligned}$$

4th Grade Hinojosa Math Vocabulary Words

Topic 14		
Word	Definition	Picture
Tools	A device or item used to make math easier.	
Angles	A figure formed by two rays that have same endpoint(vertex).	
Right	An angle which is equal to 90°.	

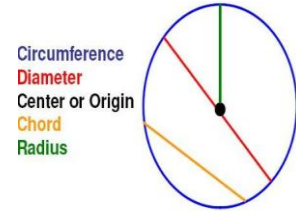
4th Grade Hinojosa Math Vocabulary Words

Acute	An angle less than 90° but greater than 0° .	
Obtuse	An obtuse angle is one which is more than 90° but less than 180° .	
Straight	A straight angle changes the direction to point the opposite way. It looks like a straight line.	
Non overlapping adjacent	Those that share a common leg , angles or side and a common vertex, but do not overlap.	

4th Grade Hinojosa Math Vocabulary Words

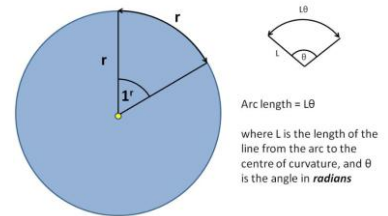
Center

Point inside a circle that is the same distance from each point on the circle.



Cuts/ cut out

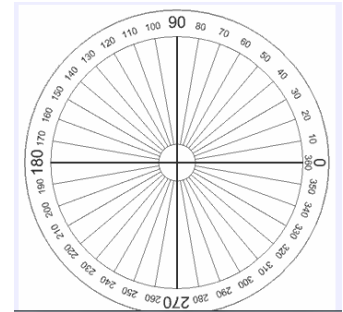
Describes the plane angle subtended by a circular arc as the length of the arc divided by the radius of the arc.



Degrees

A measure for angles. There are 360 degrees in a full rotation.

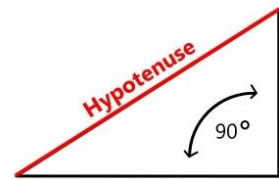
The symbol for degrees is $^\circ$.



Illustrate

To show or demonstrate.

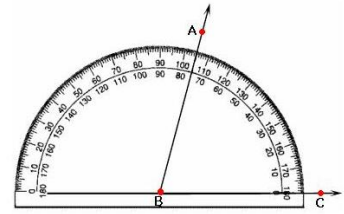
Illustrate a right triangle



4th Grade Hinojosa Math Vocabulary Words

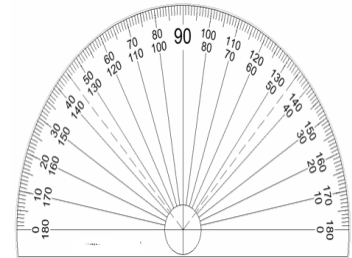
Measure

To find a number that shows the size or amount of something.



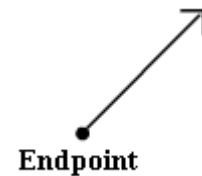
Protractor

An instrument used in measuring or drawing angles.



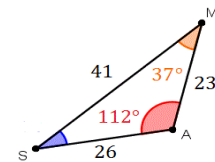
Rays

A line with a start point but no end point (it continues infinitely)



Solve

- a. the process of determining the answer to a problem.
- b. the answer itself.

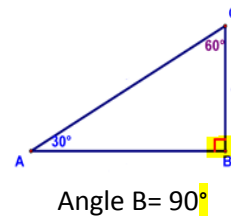


$$\begin{aligned}
 112^\circ + 37^\circ + \angle s &= 180^\circ \\
 149^\circ + \angle s &= 180^\circ \\
 180^\circ - 149^\circ &= 31^\circ \\
 \angle s &= 31^\circ
 \end{aligned}$$

4th Grade Hinojosa Math Vocabulary Words

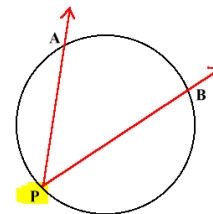
Units

Labels of measurement



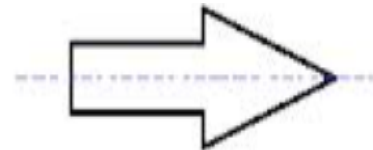
Vertex

A point where two or more straight lines meet (a corner).



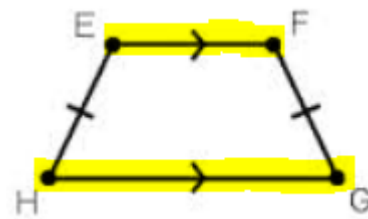
Line of symmetry

line that divides a figure into two congruent parts, each of which is the mirror image of the other

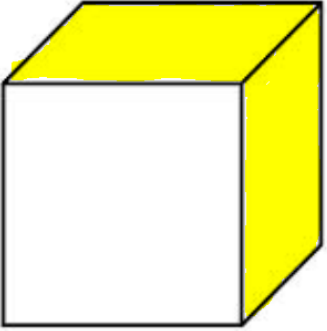
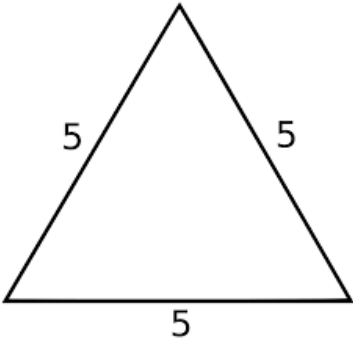
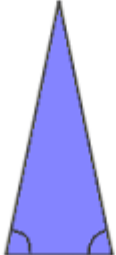
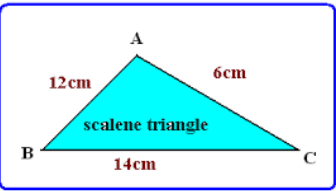


Parallel

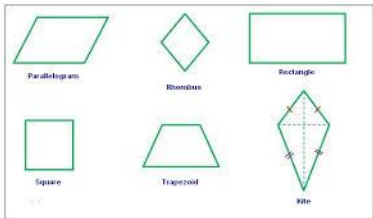

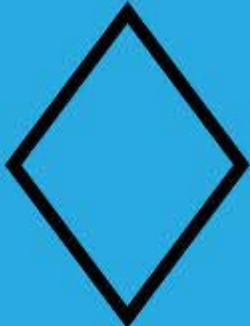
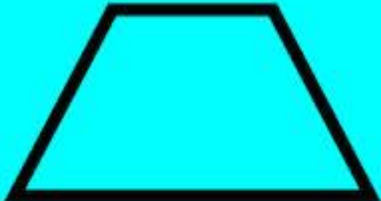
Always the same distance apart and never touching



4th Grade Hinojosa Math Vocabulary Words

Perpendicular	Intersecting that form right angles.	
Equilateral Triangles	A triangle that has all equal sides.	
Isosceles Triangles	A triangle that has at least two equal sides.	
Scalene Triangles	A triangle in which no sides are the same length.	

4th Grade Hinojosa Math Vocabulary Words

Quadrilateral	A polygon with 4 sides.	
Parallelogram	A quadrilateral in which opposite sides are parallel.	
Rhombus	A quadrilateral in which opposite sides are parallel and all sides are the same length.	
Trapezoid	A quadrilateral with only one pair of parallel sides.	

4th Grade Hinojosa Math Vocabulary Words

Topic 15

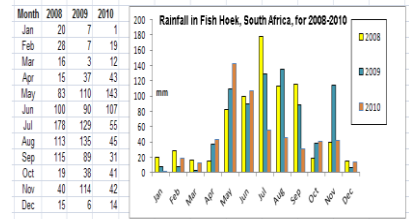
Word

Definition

Picture

Data

A collection of facts, such as values or measurements.



Table

graph

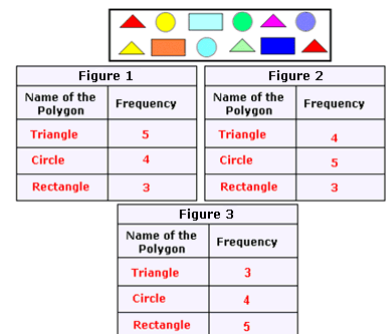
Collecting

Collection of data from surveys, or from independent or networked locations via data capture, data entry, or data logging.



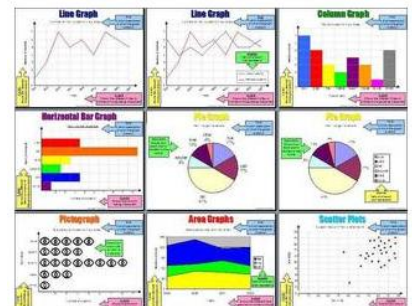
Organizing

to arrange data in a coherent form and to systematize its retrieval and processing.



Displaying

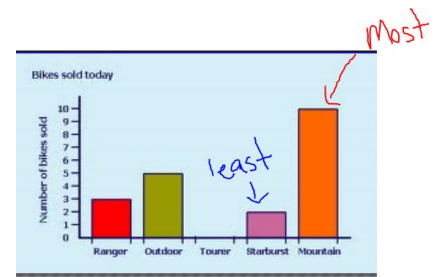
Visual presentation of processed data.



4th Grade Hinojosa Math Vocabulary Words

Interpreting

The process of assigning meaning to the collected information and determining the conclusions, significance, and implications.



Decimal

A number with one or more places to the right of the decimal point.

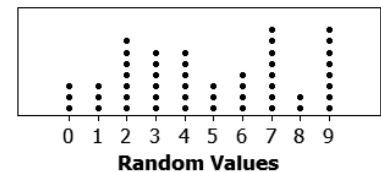
12.932

10 1 $\frac{1}{10}$ $\frac{1}{100}$ $\frac{1}{1,000}$

Dot plot

A graphical display of data using dots.

Dotplot of Random Values



Fractions

A symbol such as $\frac{1}{3}$, $\frac{15}{1}$, or $\frac{8}{5}$ to name part of a whole, part of a set or a location on a number line.



4th Grade Hinojosa Math Vocabulary Words

Frequency table

A table that lists items and uses tally marks to record and show the number of times they occur.

Favorite Food	Tally	Frequency
Taco		7
Burger		9

One-and two step problem

Problems that require **one operation** to solve or two operations.

Favorite Food	Tally	Frequency
Taco		7
Burger		9

One step: How many more burgers than tacos?

Solve

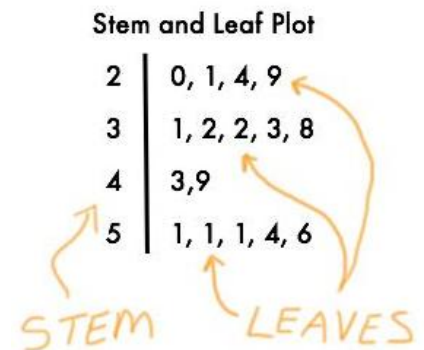
To find the solution or answer.

Favorite Food	Tally	Frequency
Taco		7
Burger		9

How many more burgers than tacos?
 $9 - 7 = 2$

Stem-and leaf plot

A method of organizing numerical data in order of place value.



4th Grade Hinojosa Math Vocabulary Words

Whole numbers





Numbers such as 0, 1, 2, 3
and so on. There is no
fractional or decimal part,
no negatives.

Whole Numbers

0, 1, 2, 3, 4, ...

4th Grade Hinojosa Math Vocabulary Words

Topic 16

Word	Definition	Picture
Allocate	To spread systematically a single monetary amount over a number of time periods, usually years.	
Allowance	A sum of money allotted or granted for a particular purpose.	
Borrowing	The action of taking and using money from a lender under an agreement to pay it back later.	
Calculate	To work out an answer, usually by adding, multiplying etc.	

4th Grade Hinojosa Math Vocabulary Words

Compare

To determine which is better.



Describe

To tell or depict in written or spoken words; give an account of.



Financial institutions

An establishment that focuses on dealing with financial transactions, such as investments, loans and deposits.



Financial resources

The money available for spending in the form of cash, liquid securities and credit lines.



4th Grade Hinojosa Math Vocabulary Words

Financial security

Assurance of financial stability in the future.



Fixed expense

An expense that **does not** change from time period to time period.



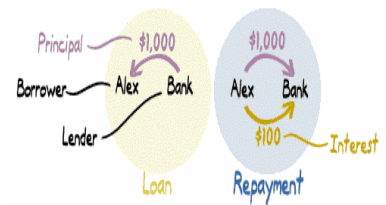
Variable expense

A cost that fluctuates(changes) directly with output changes.



Lending

The process of loaning an amount of money given to someone for a period of time with a promise that it will be paid back.



4th Grade Hinojosa Math Vocabulary Words

Profit	<p>A financial gain, especially the difference between the amount earned and the amount spent in buying, operating, or producing something.</p> <p>Income less all expenses.</p>	<p>Expense \$15.00 Revenue(Income) \$140.00</p> <p>Profit: $\\$140 - \\$15 = \\$125$ PROFIT = \$125</p>
Saving/savings	<p>A bank account that earns modestly good interest, along with the ability to withdraw money easily for modest fees.</p>	
Sharing	<p>Splitting into equal parts or groups.</p>	
Spending	<p>Pay out (money) in buying or hiring goods or services.</p>	