## Course/Subject: Math Comprehensive Grade Level: 1

Textbook(s) / Instructional Materials Used: Ready Pennsylvania Math Instruction, Practice Problem Solving, Assessment, i-Ready Diagnostic \& Instruction

## Month(s): September - October

Unit 1
Add and Subtract

| Big Idea | Standard | Eligible Content | Essential Questions \& Lesson Essential Question | Concepts | Vocabulary | Competencies |
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| Mathematical relationships among numbers can be represented, compared, and communicated. <br> Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. <br> Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. | Standard <br> K.OA.A. 2 Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem. <br> K.OA.A. 3 <br> Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., 5 5213 and 5541 1). |  | How is mathematics used to quantify, compare, represent, and model numbers? <br> How can mathematics support effective communication? <br> How are relationships represented mathematically? <br> What does it mean to estimate or analyze numerical quantities? <br> What makes a tool and/or strategy appropriate for a given task? <br> How can recognizing repetition or regularity assist in solving problems more efficiently? <br> How can expressions, equations and inequalities be used to quantify, solve, model, and/or analyze mathematical situations? | Place Value <br> Addition and Subtraction <br> Properties of Operations | equal - equal to, same as the same quantity or amount <br> add - to put together two or more <br> quantities, to find the total of two or more numbers, or to find how many in all <br> plus (+) - the math term and symbol that means add <br> total - the result of adding two or more groups or quantities | Compare two twodigit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, $=$, and <. <br> Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10 using concrete models or drawings. Relate the strategy to a written method and explain the reasoning used. |


| Patterns exhibit relationships that can be extended, described, and generalized. | K.OA.A. 4 For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation. <br> K.OA.A. 5 <br> Fluently add and subtract within 5. <br> Standard Area <br> Algebraic <br> Concepts <br> Standard CC.2.2.1.A. 1 Represent and solve problems involving addition and subtraction within 20. <br> CC.2.2.1.A. 2 <br> Understand and apply properties of operations and the relationship between addition and subtraction. |  | Lesson 0 <br> Routine Objectives <br> - Use best practices during a Ready mathematics lesson. <br> - Identify and explain models or strategies used to solve problems. <br> - Critique and compare solution strategies of others and those provided in Ready. <br> - Use math talk practices to efficiently share and compare strategies for solving problems. <br> - Apply math knowledge and modeling techniques to new, similar problems. <br> Mathematical Objectives <br> - Show and name number pairs for 9 and 10 using objects and drawings. <br> (Reviews Grade K Lessons 10 and 13) <br> - Solve addition word problems within 5 using pictures or objects. (Reviews Grade K Lesson 15) <br> - Solve take-away subtraction word problems within 10 using pictures or Objects. <br> Lesson 1 <br> Content Objectives <br> - Add within ten. <br> - Apply the counting on strategy. <br> - Analyze counting strategies. Language Objectives |  | subtract - take away or remove <br> minus (-) - the math term and symbol that mean subtract <br> difference - the result of subtraction <br> addition sentence one number is added to another in a sentence with numbers and symbols. <br> commutative property of addition changing the order of addends does not change the total. <br> count on - start with one addend and count to find a total. <br> number path a diagram that shows numbers in | Subtract multiples of 10 in the range 10-90, using concrete models or drawings. Relate the strategy to a written method and explain the reasoning used. <br> Use addition and subtraction within 20 to solve word problems by using objects, drawings, and equations with a symbol for the unknown number to represent the problem. <br> Add and subtract within 20. Use strategies such as counting on; making ten; decomposing a number leading to a ten; using the relationship between addition and subtraction and creating equivalent but easier or known sums. <br> Solve word problems that call for addition of |
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|  |  |  | - Complete number sentences to solve addition and subtraction word problems. <br> Language Objectives <br> - Identify counting strategies that can be used to solve addition and subtraction word problems. <br> - Draw jumps on a number path and circles on a tape diagram to show how to complete a number sentence. <br> - Tell the meaning of the unknown quantity in a word problem and use this to explain where the blank goes in the related number sentence. <br> - Discuss with a partner strategies used to solve a word problem. <br> Lesson 4 <br> Content Objectives <br> - Understand the relationship between addition and subtraction. <br> - Write a missing addend sentence for a corresponding subtraction sentence. <br> - Connect addition and subtraction sentences to a number bond. <br> - Relate subtraction sentences and missing addend sentences to a problem situation. Language Objectives <br> - Draw dots and write numbers in number bonds to represent |  | greater than, less than, or equal to each other. <br> fewer - <br> indicating a lesser quantity or amount. <br> more indicating a greater quantity or amount. |  |
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## Learn Facts to 10

| Big Idea | Standard | Eligible Content | Essential Questions \& Lesson Essential Question | Concepts | Vocabulary | Competencies |
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| Mathematical relationships among numbers can be represented, compared, and communicated. <br> Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. <br> Patterns exhibit relationships that can be extended, described, and generalized. | Standard Area <br> Algebraic <br> Concepts <br> Standard <br> CC.2.2.1.A. 1 <br> Represent and solve problems involving addition and subtraction within 20. <br> CC.2.2.1.A. 2 <br> Understand and apply properties of operations and the relationship between addition and subtraction. |  | How is mathematics used to quantify, compare, represent, and model numbers? <br> How can mathematics support effective communication? <br> How are relationships represented mathematically? <br> How can expressions, equations and inequalities be used to quantify, solve, model, and/or analyze mathematical situations? <br> How can recognizing repetition or regularity assist in solving problems more efficiently? <br> How can patterns be used to describe relationships in mathematical situations? <br> Lesson 6 <br> Content Objectives <br> - Relate an image of two equal groups to doubles. <br> - Relate an image of two equal groups with one left over as doubles plus one. <br> - Write addition sentences for doubles and doubles plus one. <br> - Use properties to write a doubles plus one expression | Addition and Subtraction Properties of Operations | doubles - an addition fact that has two addends that are the same, such as $4+4$. <br> doubles plus 1 - an addition fact that has a double as one addend and the double and one more as the other addend, such as $4+5$. <br> compose - to combine lesser numbers to make greater numbers. <br> decompose to break a number into two or more parts. <br> Number - tells how much or how many. | Use addition and subtraction within 20 to solve word problems by using objects, drawings, and equations with a symbol for the unknown number to represent the problem. <br> Add and subtract within 20. Use strategies such as counting on; making ten; decomposing a number leading to a ten; using the relationship between addition and subtraction and creating equivalent but easier or known sums. <br> Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20. |


|  |  |  | (3 addends) as an expression with 2 addends. <br> Language Objectives <br> - Draw picture cards to create visual examples of several doubles and doubles plus one facts. <br> - Use visual models or counters to create addition sentences and solve a doubles or a doubles plus one problem. <br> - Tell how a doubles plus one expression with 3 addends and a related doubles plus one expression with 2 addends are alike. <br> - Justify conclusions and communicate the conclusions to others. <br> Lesson 7 <br> Content Objectives <br> - Develop fluency in addition and subtraction for sums 6 and 7. <br> - Model facts for 6 and 7 in a number bond. <br> - Complete number sentences. Language Objectives <br> - Orally define and use the key mathematical term number partners when communicating with a partner. <br> - Use visual models and number bonds to find missing number partners for 6 and 7 . <br> - Record number partners for 6 or 7 in a number bond and use to complete up to four related |  | number partners - two addends that make up a given total. <br> zero - a whole number that tells when a set has no objects in it. <br> number bond a diagram with a total and two addends. <br> total - a number found as the result of adding. <br> equal sign (=) a symbol that means "is the same as." <br> is the same as - indicates that quantities equal each other. <br> number sentence - a sentence with symbols and numbers that compares two amounts as equal, less | Apply properties of operations as strategies to add and subtract (commutative property of addition; associative property of addition). <br> Understand subtraction as an unknown-addend problem. For example, subtract $10-8$ by finding the number that makes 10 when added to 8. |
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|  |  |  | connecting cubes to show how to make a false number sentence true. <br> Lesson 11 <br> Content Objectives <br> - Fluently add and subtract within 10. <br> - Use strategies such as counting on; using the relationship between addition and subtraction; and using a known sum or difference to find an unknown sum or difference to add and subtract. <br> Language Objectives <br> - Identify and use more than one strategy to complete addition or subtraction sentences in which the unknown is located in all positions. <br> - Record addition facts to 10 in an addition table. <br> - Compare two approaches to addition or subtraction and describe how they are the same or different. |  |  |  |
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| Month(s): November - December |  |  | Unit 3 |  |  |  |
| Add and Subtract to 20 |  |  |  |  |  |  |
| Big Idea | Standard | Eligible Content | Essential Questions \& Lesson Essential Question | Concepts | Vocabulary | Competencies |
| Mathematical relationships among numbers | Standard Area Numbers and Operations |  | How is mathematics used to quantify, compare, represent, and model numbers? | Place Value | ones - single units or objects. | Compare two twodigit numbers based on |




|  |  | - Describe a 10-frame. <br> Lesson 15 <br> Content Objectives <br> $\bullet$ <br> Write addition expressions <br> withree addends to <br> represent word problems. <br> -Find the total of three <br> addends, using strategies such <br> as making a ten and using <br> doubles. <br> $\bullet$ Use the associative and <br> commutative properties to <br> group addends in order to find <br> known sums. <br> Language Objectives <br> $\bullet$ Draw jumps on number paths <br> or use 10-frames to find the <br> total of three addends. <br> •Use connecting cubes to <br> show that changing the order <br> or the grouping of addends <br> does not change the sum. <br> $\bullet$ Explain how making a ten <br> can be used to find the total of <br> three numbers. <br> Lesson 16 <br> Content Objectives <br> $\bullet$ Recognize that teen numbers <br> can be decomposed and <br> composed to subtract. <br> •Use the make-a-ten strategy <br> to subtract single-digit <br> numbers from teen numbers. <br> Language Objectives <br> $\bullet$ Explain how to use the make <br> a ten strategy to subtract. |  |
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|  |  |  | - Use 10 -frames and number paths to decompose teen numbers to make a ten and find a difference. <br> - Justify answers and communicate the results to others. |  |  |  |
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| Month(s): December - January - February |  |  | Unit 4 |  |  |  |
| Tens |  |  |  |  |  |  |
| Big Idea | Standard | Eligible Content | Essential Questions \& Lesson Essential Question | Concepts | Vocabulary | Competencies |
| Mathematical relationships among numbers can be represented, compared, and communicated. <br> Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. <br> Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate | Standard Area <br> Numbers and <br> Operations <br> Standard <br> CC.2.1.1.B. 2 <br> Use place-value concepts to represent amounts of tens and ones and to compare two digit numbers. <br> CC.2.1.1.B. 1 <br> Extend the counting sequence to read and write numerals to represent objects. <br> CC.2.1.1.B. 3 <br> Use place-value |  | How is mathematics used to quantify, compare, represent, and model numbers? <br> How can mathematics support effective communication? <br> How are relationships represented mathematically? <br> What does it mean to estimate or analyze numerical quantities? <br> What makes a tool and/or strategy appropriate for a given task? <br> Lesson 17 <br> Content Objectives <br> - Understand that the base-ten system is made up of groups of tens and ones. <br> - Organize 10 ones into a group of ten. | Numerical Sequence | Addend <br> Addition <br> Analog <br> Circle <br> Compare <br> compose/ <br> Cone Counting on <br> Cube <br> Cylinder <br> Data <br> decompose <br> Equal to <br> Fourths <br> Fractions <br> Greater than <br> Half circles <br> Half-hour <br> Halves <br> Hour <br> Length <br> Less than <br> Making ten <br> Ones | Count to 120, starting at any number less than 120. <br> Read and write numerals up to 120 and represent a number of objects with a written numeral. |



|  |  |  | - Mentally add and subtract 10 from any number within 120. <br> - Recognize that adding or subtracting a ten results in a change in the tens digit alone. <br> Language Objectives <br> - Use connecting cubes, digit cards, or a 120 chart to show how only the tens digit changes when 10 is added to or subtracted from a number. <br> - Tell how finding 10 more or 10 less is like and how it is different from finding <br> 1 more or 1 less. <br> - Write numbers that are 10 more and 10 less than a given number. <br> Lesson 20 <br> Content Objectives <br> - Count tens as 1 ten, 2 tens, 3 tens, tens or as 10, 20, 30. <br> - Add multiples of 10 to multiples of 10 and subtract multiples of 10 from multiples of 10 . <br> - Relate adding tens to adding ones. <br> Language Objectives <br> - Use connecting cubes and quick-draw diagrams to model and represent tens in word problems. <br> - Complete number sentences based on models to solve word problems involving adding and subtracting tens. |  | ones than a given number. <br> 10 more - 1 more ten or 10 more ones than a given number. |  |
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|  |  |  | - Draw arrows or use a finger on a 120 chart to find the unknown in a number sentence. <br> - Restate what information a word problem is asking for and orally describe how to solve. |  |  |  |
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| Month(s): February - March |  |  | Unit 5 |  |  |  |
| Tens and Ones |  |  |  |  |  |  |
| Big Idea | Standard | Eligible Content | Essential Questions \& Lesson Essential Question | Concepts | Vocabulary | Competencies |
| Mathematical relationships among numbers can be represented, compared, and communicated. <br> Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. <br> Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate | Standard Area Numbers and Operations <br> Standard CC.2.1.1.B. 2 Use place-value concepts to represent amounts of tens and ones and to compare two digit numbers. <br> CC.2.1.1.B. 3 Use place-value concepts and properties of operations to add and subtract within 100. |  | How is mathematics used to quantify, compare, represent, and model numbers? <br> How can mathematics support effective communication? <br> How are relationships represented mathematically? <br> What does it mean to estimate or analyze numerical quantities? <br> What makes a tool and/or strategy appropriate for a given task? <br> How can recognizing repetition or regularity assist in solving problems more efficiently? <br> Lesson 21 <br> Content Objectives | Place Value | digit - any of the ten symbols used in the base-ten numeration system 0, 1, 2, $3,4,5,6,7,8$, 9. <br> place value the value of the place of a digit, such as tens and ones. <br> ones - single units or objects. <br> tens - groups of ten ones. <br> < symbol means is less than. | Compare two twodigit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, $=$, and <. <br> Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10 using concrete models or drawings. Relate the strategy to a written method |


| strategies and tools. <br> Patterns exhibit relationships that can be extended, described, and generalized. |  |  | - Represent two-digit numbers as tens and ones. <br> - Decompose a two-digit number as some tens and some ones in multiple ways. <br> - Model a two-digit number in multiple ways. <br> Language Objectives <br> - Use connecting cubes and draw diagrams to model a twodigit number as a group of ones and as a group of tens plus ones. <br> - Write given two-digit numbers as different tens and ones. <br> - Justify conclusions and communicate the conclusions to others. <br> Lesson 22 <br> Content Objectives <br> - Understand the meaning of the symbols, <and>. <br> - Compare the value of 2 twodigit numbers using tens and ones. <br> - Write the symbols $<,>$, and $=$ to compare 2 two-digit numbers. <br> Language Objectives <br> - Orally describe and write the symbols used to represent is greater than, is less than, and is the same as. <br> - Use quick-draw diagrams and base-ten blocks to model two-digit numbers in comparison problems. |  | > symbol means is greater than. <br> greater than number with a greater value or quantity. <br> less than number with a smaller value or quantity. <br> more than more in quantity or amount. <br> compare to decide if amounts or sizes are greater than, less than, or equal to each other. <br> equal sign (=) a symbol that means is the same as. <br> Fewer indicating a lesser quantity or amount. <br> More indicating a | and explain the reasoning used. <br> Subtract multiples of 10 in the range 10-90, using concrete models or drawings. Relate the strategy to a written method and explain the reasoning used. |
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|  |  |  | - Rewrite given pairs of twodigit numbers as tens and ones and determine which number is greater than, less than, or equal to the other. <br> Lesson 23 <br> Content Objectives <br> - Add multiples of ten to any two-digit number. <br> - Apply strategies to addition of two-digit numbers. <br> - Model addition involving tens. <br> Language Objectives <br> - Use base-ten blocks, quickdraw diagrams, number bonds, or place value charts to decompose two-digit numbers into tens and ones. <br> - Tell how the different approaches used by others to add tens to any number are alike and how they are different. <br> Lesson 24 <br> Content Objectives <br> - Model addition of two-digit numbers. <br> - Add two-digit numbers without Regrouping. <br> Language Objectives <br> - Use base-ten blocks, quickdraw diagrams, number bonds, or place value charts to decompose two-digit numbers into tens and ones. |  | greater quantity or amount. <br> make a ten - a strategy that uses combinations of numbers that add to ten when finding totals greater than 10. |  |
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Month(s): March - April

## Unit 6

| Big Idea | Standard | Eligible Content | Essential Questions \& Lesson Essential Question | Concepts | Vocabulary | Competencies |
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| Patterns exhibit relationships that can be extended, described, and generalized. <br> Geometric relationships can be described, analyzed, and classified based on spatial reasoning and/or visualization. | Standard Area <br> Geometry <br> Standard <br> CC.2.3.1.A. 1 <br> Compose and distinguish between twoand threedimensional shapes based on their attributes. <br> CC.2.3.1.A. 2 <br> Use the understanding of fractions to partition shapes into halves and quarters. |  | How can recognizing repetition or regularity assist in solving problems more efficiently? <br> How are spatial relationships, including shape and dimension, used to draw, construct, model, and represent real situations or solve problems? <br> How can the application of the attributes of geometric shapes support mathematical reasoning and problem solving? <br> How can geometric properties and theorems be used to describe, model, and analyze situations? <br> How can patterns be used to describe relationships in mathematical situations? <br> Lesson 26 <br> Content Objectives <br> - Identify the defining attributes of a shape. <br> - Distinguish between defining and non-defining attributes. <br> - Classify a shape based on its defining attributes. <br> Language Objectives <br> - Draw a shape based on given attributes or its name. | Two and Three Dimensional <br> Fractions | corner - a point where two or more lines meet. <br> hexagon - a shape with 6 sides and 6 corners. <br> rectangle - a shape with 4 sides and 4 square corners that has opposite sides the same length. <br> rhombus - a shape with 4 sides and 4 corners that has all sides the same length. <br> side - a line segment that is part of a shape. <br> square - a shape with 4 sides and 4 square corners that has all | Compose two and three-dimensional shapes and distinguish between attributes. <br> Build and draw shapes to possess attributes. <br> Partition circles and rectangles into two and four equal shares. <br> Understand that decomposing into more equal shares creates |




|  |  |  |  |  | cylinder-a solid shape like a can. <br> sphere - a solid shape like a ball. <br> circle - a figure with no sides and no corners. <br> compose - to combine two or more shapes to create a new shape. <br> composite shape - a figure that is made up of two or more shapes. <br> decompose to break apart a shape into smaller shapes. <br> half-circle - one of two equal parts of a circle. <br> quarter-circle one of four |  |
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|  |  |  |  | equal parts of a circle. <br> equal parts parts that cover an equal amount of space. <br> fourths, fourth four equal parts; one of four parts of a whole. <br> halves, half two equal parts; one of two equal parts of a whole. <br> quarters, quarter - four equal parts; one of four parts of a whole. <br> unequal parts parts of a whole that are not the same size. <br> whole - all of an object, a group of objects, shape, or quantity. |  |
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| Month(s): Aprir - May |  | Unit 7 |  |  |  |

How Many? How Much? How Long?

| Big Idea | Standard | Eligible Content | Essential Questions \& Lesson Essential Question | Concepts | Vocabulary | Competencies |
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| Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. <br> Mathematical relations and functions can be modeled through multiple representations and analyzed to raise and answer questions. <br> Data can be modeled and used to make inferences. | Standard Area Measurement, Data, and Probability <br> Standard CC.2.4.1.A. 4 Represent and interpret data using tables/ charts. <br> CC.2.4.1.A. 1 Order lengths and measure them both indirectly and by repeating length units. <br> CC.2.4.1.A. 2 Tell and write time to the nearest half hour using both analog and digital clocks. |  | What does it mean to estimate or analyze numerical quantities? <br> When is it is appropriate to estimate versus calculate? <br> What makes a tool and/or strategy appropriate for a given task? <br> Why does "what" we measure influence "how" we measure? <br> In what ways are the mathematical attributes of objects or processes measured, calculated and/or interpreted? <br> How precise do measurements and calculations need to be? <br> How can data be organized and represented to provide insight into the relationship between quantities? <br> How does the type of data influence the choice of display? <br> How can probability and data analysis be used to make predictions? | Measurement Time <br> Represent and Interpret Data | data - <br> numerical information about a set of objects, usually gathered through observation, surveys, or measurement. <br> picture graph a data display in which pictures are used to represent the number of data in each category. <br> sort - to group or organize objects by shared attributes. <br> tally chart - a data display in which tally marks are used to represent the number of data in each category. | Order three objects by length; compare the lengths of two objects indirectly by using a third object. <br> Use standard and non-standard units of measure to express the length of an object a whole number of length units. <br> Understand that the length measurement of an object is the number of samesize length units. <br> Understand that the length measurement of an object is the number of samesize length units. <br> Tell and write time in hours and half hours using analog and digital clocks. |



|  |  |  | - Listen to the ideas of others about how to make sense of the data in tally charts or picture graphs and compare their Strategies. <br> Lesson 31 <br> Content Objectives <br> - Order three objects by length. <br> Language Objectives <br> - Order three classroom objects by length (shortest to longest or longest to shortest). <br> - Orally explain why one end of all the objects being ordered by length must be aligned. <br> - Draw a line that is shorter or longer than two given objects. <br> Lesson 32 <br> Content Objectives <br> - Recognize that sometimes it is not possible to compare length directly. <br> - Compare two objects by comparing their lengths to a third, reference, object. <br> - Use logical reasoning to indirectly compare the lengths of objects. <br> Language Objectives <br> - Tell which object is shorter or longer than a given object. <br> - Use a paper strip to find classroom objects that are longer, shorter, and the same size as the paper strip. - Describe why an item that is shorter than a given object |  | tallest describes the greatest height when ordering three or more objects by height. <br> compare - to decide if amounts or sizes are greater than, less than, or equal to each other. <br> Measure - the process of finding a number that shows the size or quantity. <br> unit - that which is used to measure the height or length of an object. <br> analog clock a clock that uses hour and minute hand positions to show time. <br> digital clock - a clock that uses the number of |  |
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|  |  |  | Language Objectives <br> •Draw the hour hand on an <br> analog clock to show a given <br> time to the hour. <br> - Tell time to the half hour <br> more than one way using <br> words and numbers. <br> - Show the same time on an <br> analog clock (draw) and a <br> digital clock (write). | hand) on an <br> analog clock, <br> which shows <br> the minutes. <br> o'clock - |
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| literally means |  |  |  |  |
| of the clock; |  |  |  |  |
| used to tell that |  |  |  |  |
| the current |  |  |  |  |
| time is a |  |  |  |  |
| particular hour. |  |  |  |  |$\quad$.

