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correlated to

**Missouri Mathematics
Grade-Level Expectations
Grades K-6**

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correlated to
Missouri Mathematics Grade-Level Expectations
Kindergarten

Number and Operations

Big Idea 1

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Read, write and compare numbers rote counts to 100	Teacher's Guide: 22, 25, 39, 49, 63, 89, 93, 104
Concept C Compose and decompose numbers connect number words (orally) and quantities they represent	Teacher's Guide: 23, 24, 25, 26, 33, 34, 35, 36, 37, 38, 39, 40, 48, 49, 50, 51, 52, 53, 55, 60, 61, 62, 64, 65, 67, 74, 77, 79, 80, 81, 87, 88, 89, 90, 91, 93, 94, 95, 96, 97, 113, 119, 120, 121, 133, 134, 135

Big Idea 3

Compute fluently and make reasonable estimates

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Describe or represent mental strategies recognize numerals up to 31	Teacher's Guide: 18, 19, 20, 21, 22, 23, 25, 32, 33, 34, 35, 26, 39, 40, 46, 47, 48

Algebraic Relationships

Big Idea 1

Understand patterns, relations and functions

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Recognize and extend patterns recognize or repeat sequences of sounds or shapes	Teacher's Guide: 32, 33, 34, 46, 47, 60, 61, 74, 75, 87, 88, 102, 103, 116, 117
Concept B Create and analyze patterns create and continue patterns	Teacher's Guide: 20, 23, 32, 33, 34, 40, 46, 47, 52, 53, 60, 61, 66, 67, 74, 75, 79, 80, 87, 88, 102, 103, 116, 117, 122, 123, 128, 129

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept C Classify objects and representations sort objects by size	Teacher's Guide: 36, 102, 103

Big Idea 3

Use mathematical models to represent and understand quantitative relationships

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Use mathematical models model situations that involve whole numbers, using pictures, objects or symbols	Teacher's Guide: 25, 37, 38, 39, 40, 41, 48, 49, 50, 53, 62, 63, 64, 65, 67, 76, 78, 80, 82, 83, 86, 89, 90, 91, 93, 104, 105, 107, 120, 121, 122, 131, 133

Geometric and Spatial Relationships

Big Idea 1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Describe and use geometric relationships sort two- and three-dimensional shapes using physical models (circle, rectangle, triangle, sphere, rectangular prism, cylinder, pyramid)	Teacher's Guide: 29, 33, 60, 61, 74, 75, 102, 103, 116, 117, 133, 134, 135

Big Idea 2

Specify locations and describe spatial relationships using coordinate geometry and other representational systems

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Use coordinate systems describe, name and interpret relative positions in space (above, below, front, behind)	Teacher's Guide: 21, 23, 33, 40, 50, 51, 61, 75, 92

Big Idea 4

Use visualization, spatial reasoning and geometric modeling to solve problems

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Recognize and draw three-dimensional representations recognize geometric shapes in the student's environment (stop sign, number cube, ball)	Teacher's Guide: 28, 29, 47, 60, 61, 75, 103, 117, 134

Measurement

Big Idea 1

Understand measurable attributes of objects and the units, systems and processes of measurement

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Determine unit of measurement compare and order objects according to their size and weight	Teacher's Guide: 36, 69, 70, 71, 82, 83, 112, 113
Concept C Tell and use units of time describe passage of time using terms such as today, yesterday, tomorrow	Teacher's Guide: 18, 19, 20, 23, 25, 26, 35, 65, 76, 87, 107
Concept D Count and compute money identify and know the value of a penny, nickel and dime	Teacher's Guide: 111, 118, 119, 130, 131

Big Idea 2

Apply appropriate techniques, tools and formulas to determine measurements

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Use standard or nonstandard measurement measure with multiple copies of a unit of the same size (e.g., paper clips laid end-to-end)	Teacher's Guide: 56, 57, 98, 99, 112, 113, 124, 125

Data and Probability

Big Idea 1

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

Grade-Level Expectations, Kindergarten	Every Day Counts® Calendar Math, Kindergarten
Concept A Formulate questions pose questions and gather data about themselves and their surroundings	Teacher's Guide: 27, 28, 29, 41, 42, 43, 54, 55, 67, 68, 69, 80, 81, 94, 95, 96, 97, 108, 109, 110, 111, 122, 123, 133, 134, 135
Concept B Classify and organize data sort items according to their attributes	Teacher's Guide: 21, 28, 34, 41, 42, 43, 54, 55, 67, 68, 69, 80, 81, 122, 123, 133, 134, 135
Concept C Represent and interpret data represent data using physical objects	Teacher's Guide: 27, 28, 29, 41, 42, 43, 54, 55, 67, 68, 69, 80, 81, 94, 95, 96, 97, 108, 109, 110, 111, 122, 123, 133, 134, 135



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correlated to
Missouri Mathematics Grade-Level Expectations
Grade 1

Number and Operations

Big Idea 1

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Read, write and compare numbers recognize “how many” in a set of objects	Teacher’s Guide: 18, 19, 20, 24, 25, 26, 27, 34, 35, 36, 40, 41, 42, 48, 49, 50, 52, 53, 55, 56, 62, 63, 64, 68, 69, 74, 77, 78, 79, 80, 81, 87, 88, 91, 92, 93, 94, 102, 103, 107, 108, 116, 117, 121, 122, 128, 129, 131, 132
Concept C Compose and decompose numbers compose or decompose numbers using known facts, doubles, and close to doubles	Teacher’s Guide: 21, 22, 23, 25, 27, 36, 37, 38, 40, 41, 42, 50, 51, 53, 55, 56, 57, 64, 65, 67, 68, 69, 75, 76, 77, 89, 90, 91, 104, 105, 117, 118, 119, 130, 131

Big Idea 2

Understand meanings of operations and how they relate to one another

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Represent operations represent a given situation involving addition	Teacher’s Guide: 21, 22, 23, 25, 27, 37, 38, 42, 51, 65, 67, 75, 76, 77, 89, 90, 104, 117, 118, 119, 130, 131

Big Idea 3

Compute fluently and make reasonable estimates

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Describe or represent mental strategies describe or represent the mental strategy used to compute an addition problem	Teacher’s Guide: 25, 27, 75, 76, 77, 118, 119, 130, 131
Concept B Develop and demonstrate fluency develop fluency with basic number relationships of addition and subtraction for sums up to 20	Teacher’s Guide: 21, 22, 23, 25, 27, 36, 37, 38, 40, 41, 42, 50, 51, 53, 55, 56, 57, 64, 65, 67, 68, 69, 75, 76, 77, 89, 90, 91, 104, 105, 117, 118, 119, 130, 131

Algebraic Relationships

Big Idea 1

Understand patterns, relations and functions

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Recognize and extend patterns extend patterns of sound, shape, motion or a simple numeric pattern	Teacher's Guide: 18, 19, 20, 34, 35, 36, 40, 41, 42, 48, 49, 50, 55, 56, 57, 62, 63, 64, 74, 75, 76, 77, 87, 88, 89, 102, 103, 116, 117, 128, 129, 130
Concept B Create and analyze patterns describe how repeating patterns are generated	Teacher's Guide: 18, 19, 20, 34, 35, 36, 40, 41, 42, 48, 49, 50, 55, 56, 57, 62, 63, 64, 74, 75, 76, 77, 87, 88, 89, 102, 103, 116, 117, 128, 129, 130
Concept C Classify objects and representations classify objects by size or number	Teacher's Guide: 38, 39, 40, 50, 51, 76, 77, 86, 87, 88, 89, 92, 93, 94, 98, 99, 102, 103, 105, 106, 117, 119, 120, 121, 130

Big Idea 2

Represent and analyze mathematical situations and structures using algebraic symbols

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Represent mathematical situations represent a mathematical situation as an expression or number sentence	Teacher's Guide: 21, 22, 23, 24, 25, 27, 37, 38, 42, 51, 65, 75, 76, 90, 104, 118, 119, 130, 131

Big Idea 3

Use mathematical models to represent and understand quantitative relationships

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Use mathematical models model situations that involve the addition of whole numbers, using pictures, objects or symbols	Teacher's Guide: 21, 22, 23, 25, 27, 36, 37, 38, 40, 41, 42, 50, 51, 55, 56, 57, 64, 65, 66, 67, 68, 69, 75, 76, 77, 79, 89, 90, 92, 93, 94, 104, 105, 107, 108, 117, 118, 119, 130, 131, 132

Geometric and Spatial Relationships

Big Idea 1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Describe and use geometric relationships recognize and name two- and three-dimensional shapes using physical models (circle, triangle, trapezoid, rectangle, rhombus, sphere, rectangular prism, cylinder, pyramid)	Teacher's Guide: 20, 34, 35, 48, 49, 50, 62, 63, 64, 116, 129, 134, 135

Big Idea 2

Specify locations and describe spatial relationships using coordinate geometry and other representational systems

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Use coordinate systems describe, name and interpret relative positions in space (left, right)	Teacher's Guide: 48, 50, 62, 74, 75, 87, 103, 128, 129

Big Idea 3

Apply transformations and use symmetry to analyze mathematical situations

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Use transformations on objects use manipulatives to model slides and turns	Teacher's Guide: 64, 116, 117

Big Idea 4

Use visualization, spatial reasoning and geometric modeling to solve problems

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Recognize and draw three-dimensional representations recognize geometric shapes and structures in the student's environment and specify the shape's location	Teacher's Guide: 62, 63, 64, 74, 105, 106, 128, 129, 134, 135

Measurement

Big Idea 1

Understand measurable attributes of objects and the units, systems and processes of measurement

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Determine unit of measurement select the appropriate tool for the attribute being measured	Teacher's Guide: 54, 55, 105, 106, 119, 120, 121
Concept C Tell and use units of time tell time to the nearest hour	Teacher's Guide: 28, 29, 30, 43, 59, 70, 71, 81, 82, 97, 98, 110
Concept D Count and compute money count money to fifty cents, including quarters and half dollars	Teacher's Guide: 57, 58, 69, 70, 80, 81, 95, 96, 108, 109, 122, 123, 133

Big Idea 2

Apply appropriate techniques, tools and formulas to determine measurements

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Use standard or non-standard measurement use repetition of a single unit to measure something larger than the unit (e.g., measuring the length of the room with a single meter stick)	Teacher's Guide: 38, 39, 40, 54, 55, 105, 106, 119, 120, 121

Data and Probability

Big Idea 1

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

Grade-Level Expectations, Grade 1	Every Day Counts® Calendar Math, Grade 1
Concept A Formulate questions pose questions and gather data about themselves and their surroundings	Teacher's Guide: 30, 31, 44, 45, 83, 98, 99, 111, 112, 113, 123, 124, 125, 134, 135
Concept B Classify and organize data sort and classify items according to their attributes	Teacher's Guide: 30, 31, 44, 45, 83, 98, 99, 111, 112, 113, 123, 124, 125, 134, 135
Concept C Represent and interpret data represent data using pictures and bar graphs	Teacher's Guide: 30, 31, 44, 45, 83, 98, 99, 111, 112, 113, 123, 124, 125, 134, 135



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correlated to
Missouri Mathematics Grade-Level Expectations
Grade 2

Number and Operations

Big Idea 1

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Read, write and compare numbers read, write, and compare whole numbers less than 100	Teacher's Guide: 18, 19, 20, 23, 24, 25, 27, 28, 29, 32, 33, 34, 36, 37, 53, 54, 66, 67, 68, 81, 94, 95, 96
Concept B Represent and use rational numbers recognize $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$ of a shape	Teacher's Guide: 72, 105, 106
Concept C Compose and decompose numbers compose or decompose numbers by a variety of strategies, such as using known facts, tens or landmark numbers to solve problems	Teacher's Guide: 20, 21, 22, 24, 34, 35, 36, 37, 48, 49, 54, 63, 64, 65, 66, 67, 68, 74, 75, 76, 77, 80, 81, 88, 89, 90, 96, 97, 109, 110
Concept D Classify and describe numeric relationships skip count by 2s, 5s and 10s	Teacher's Guide: 20, 24, 34, 35, 38, 39, 51, 52, 53, 54, 57, 66, 67, 68, 69, 73, 75, 78, 94, 95, 96, 109, 110, 121, 122, 126, 127

Big Idea 2

Understand meanings of operations and how they relate to one another

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Represent operations represent a given situation involving addition or subtraction	Teacher's Guide: 20, 21, 22, 34, 35, 36, 48, 49, 53, 54, 63, 64, 65, 66, 67, 74, 75, 76, 77, 81, 88, 89, 90, 91, 103, 104, 105, 109, 110

Big Idea 3

Compute fluently and make reasonable estimates

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
<p>Concept A Describe or represent mental strategies describe or notate the mental strategy used to compute addition or subtraction of whole numbers, including two-digit numbers</p>	<p>Teacher's Guide: 23, 24, 25, 26, 34, 35, 36, 37, 53, 54, 64, 65, 66, 67, 68, 80, 81, 89, 90, 91, 94, 96, 109, 110</p>
<p>Concept B Develop and demonstrate fluency demonstrate fluency with basic number relationships of addition and subtraction for sums up to 20.</p>	<p>Teacher's Guide: 20, 21, 22, 24, 34, 35, 36, 37, 48, 49, 54, 63, 64, 65, 66, 67, 68, 74, 75, 76, 77, 80, 81, 88, 89, 90, 96, 97, 109, 110</p>
<p>Concept C Compute problems apply and describe the strategy used to compute two-digit addition or subtraction problems</p>	<p>Teacher's Guide: 35, 53, 54, 65, 66, 67, 76, 77, 88, 89, 90, 91</p>

Algebraic Relationships

Big Idea 1

Understand patterns, relations and functions

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
<p>Concept A Recognize and extend patterns describe and extend simple numeric patterns and change from one representation to another</p>	<p>Teacher's Guide: 18, 19, 20, 32, 33, 34, 36, 37, 47, 63, 73, 87, 126, 127</p>
<p>Concept B Create and analyze patterns describe how simple growing patterns are generated</p>	<p>Teacher's Guide: 18, 19, 20, 32, 33, 34, 36, 37, 46, 47, 62, 63, 72, 73, 87, 102, 103, 116, 126, 127</p>
<p>Concept C Classify objects and representations classify objects by size, number or other attributes</p>	<p>Teacher's Guide: 18, 19, 20, 32, 33, 34, 46, 47, 48, 58, 59, 62, 63, 72, 73, 87, 98, 99, 102, 103, 107, 108, 116, 126, 127, 130, 131</p>

Big Idea 2

Represent and analyze mathematical situations and structures using algebraic symbols

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Represent mathematical situations represent a mathematical situation as an expression or number sentence	Teacher's Guide: 20, 21, 22, 34, 35, 36, 48, 49, 53, 54, 63, 64, 65, 66, 67, 74, 75, 76, 77, 81, 88, 89, 90, 103, 104, 105, 109, 117, 118, 119, 122, 128
Concept B Describe and use mathematical manipulation investigate commutative principle with whole numbers	Teacher's Guide: 22, 35, 49, 64

Big Idea 3

Use mathematical models to represent and understand quantitative relationships

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Use mathematical models model situations that involve addition or subtraction of whole numbers using pictures objects, or symbols	Teacher's Guide: 20, 21, 22, 34, 35, 36, 37, 48, 49, 51, 52, 53, 54, 55, 63, 64, 65, 66, 67, 68, 73, 74, 75, 76, 77, 80, 81, 88, 89, 90, 91, 103, 104, 105, 109, 110, 117, 118, 119, 121, 122, 128

Big Idea 4

Analyze change in various contexts.

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
describe qualitative change, such as students growing taller	Teacher's Guide: 29, 42, 43, 52, 59, 79, 93, 94, 99

Geometric and Spatial Relationships

Big Idea 1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Describe and use geometric relationships describe attributes and parts of two- and three-dimensional shapes (circle, triangle, trapezoid, rectangle, rhombus, sphere, rectangular prism, cylinder, pyramid)	Teacher's Guide: 18, 19, 20, 32, 33, 34, 46, 47, 62, 63, 72, 73, 87, 102, 103, 116, 130, 131

Big Idea 3

Apply transformations and use symmetry to analyze mathematical situations

Grade-Level Expectations, Grade 2	Every Day Count® Calendar Math, Grade 2
Concept A Use transformations on objects use manipulatives to model flips	Teacher's Guide: 73
Concept C Use symmetry recognize and create shapes that have symmetry	Teacher's Guide: 72, 73, 87, 116

Big Idea 4

Use visualization, spatial reasoning and geometric modeling to solve problems

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Recognize and draw three-dimensional representations recognize and represent shapes from different perspectives	Teacher's Guide: 18, 19, 20, 32, 33, 34, 46, 47, 62, 63, 72, 73, 87, 102, 103, 116, 130, 131

Measurement

Big Idea 1

Understand measurable attributes of objects and the units, systems and processes of measurement

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Determine unit of measurement select an appropriate unit and tool for the attribute being measured	Teacher's Guide: 39, 40, 41, 50, 51, 52, 57, 58, 59, 68, 69, 82, 83, 86, 91, 92, 93, 94, 105, 106, 107, 108, 119, 120, 121
Concept C Tell and use units of time tell time to the nearest half hour	Teacher's Guide: 39, 40, 41, 57, 68, 69, 91, 92, 105, 106
Concept D Count and compute money count money to a dollar	Teacher's Guide: 68, 81, 82, 110, 111, 122, 123, 128, 129

Big Idea 2

Apply appropriate techniques, tools and formulas to determine measurements

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Use standard or non-standard measurement use tools to measure (size, temperature, time, weight) to the nearest inch, centimeter, degree, hour, and pound	Teacher's Guide: 50, 51, 52, 58, 59, 78, 79, 92, 93, 94, 107, 108, 119, 120

Data and Probability

Big Idea 1

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

Grade-Level Expectations, Grade 2	Every Day Counts® Calendar Math, Grade 2
Concept A Formulate questions pose questions and gather data about themselves and their surroundings	Teacher's Guide: 27, 28, 29, 41, 42, 43, 58, 59, 98, 99, 111, 112, 113, 130, 131
Concept B Classify and organize data sort and classify items according to their attributes and organize data about the items	Teacher's Guide: 27, 28, 29, 41, 42, 43, 58, 59, 98, 99, 111, 112, 113, 130, 131
Concept C Represent and interpret data represent data using pictures and bar graphs	Teacher's Guide: 27, 28, 29, 41, 42, 43, 58, 59, 98, 99, 111, 112, 113, 130, 131



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correlated to
Missouri Mathematics Grade-Level Expectations
Grade 3

Number and Operations

Big Idea 1

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Read, write and compare numbers read, write and compare whole numbers up to 3 digits	Teacher's Guide: 23, 24, 25, 26, 27, 41, 42, 57, 58, 69, 70, 71, 80, 81, 82, 83, 88, 95, 96, 97, 118, 119, 121, 122, 123, 124, 139, 140, 144, 145, 148, 149, 151, 154, 155
Concept B Represent and use rational numbers represent commonly used fractions: halves, thirds, and fourths	Teacher's Guide: 53, 88, 89, 116, 117, 148, 153
Concept C Compose and decompose numbers recognize equivalent representations for the same number and generate them by decomposing and composing numbers	Teacher's Guide: 20, 21, 22, 23, 24, 25, 33, 34, 35, 48, 49, 57, 58, 70, 82, 83, 95, 96, 123, 124, 149, 151
Concept D Classify and describe numeric relationships classify numbers by their characteristics, including odd and even	Teacher's Guide: 18, 19, 20, 23, 24, 25, 32, 33, 39, 40, 55, 56, 57, 64, 65, 69, 70, 76, 77, 78, 79, 80, 81, 82, 93, 94, 108, 109, 116, 117, 118, 119, 121, 122, 123, 130, 131, 132, 133, 140, 143, 146, 148, 155

Big Idea 2

Understand meanings of operations and how they relate to one another

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Represent operations represent a given situation involving multiplication	Teacher's Guide: 23, 40, 66, 67, 68, 70, 76, 77, 78, 80, 81, 90, 91, 93, 94, 95, 108, 109, 118, 119, 121, 122, 123, 130, 131, 132

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept B Describe effects of operations describe the effects of adding and subtracting whole numbers as well as the relationship between the two operations	Teacher's Guide: 20, 21, 22, 23, 24, 25, 26, 33, 34, 35, 39, 40, 41, 42, 49, 50, 51
Concept C Apply properties of operations apply commutative and identity properties of addition to whole numbers	Teacher's Guide: 20, 21, 34

Big Idea 3

Compute fluently and make reasonable estimates

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept B Develop and demonstrate fluency develop fluency with basic number relationships (12 x 12) of multiplication and division	Teacher's Guide: 23, 24, 55, 66, 67, 68, 69, 70, 76, 77, 78, 80, 81, 90, 91, 93, 94, 95, 96, 103, 104, 105, 108, 109, 118, 119, 121, 122, 130, 131, 132, 133, 138, 148, 150, 153
Concept C Compute problems apply and describe the strategy used to compute up to a 3-digit addition or subtraction problem	Teacher's Guide: 20, 21, 22, 23, 24, 25, 26, 33, 34, 35, 39, 40, 41, 42, 49, 50, 51
Concept D Estimate and justify solutions estimate and justify the results of addition and subtraction of whole numbers	Teacher's Guide: 27, 55, 56, 57, 58, 70, 123, 124, 125, 133, 134

Algebraic Relationships

Big Idea 1

Understand patterns, relations and functions

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Recognize and extend patterns extend geometric (shapes) and numeric patterns to find the next term	Teacher's Guide: 18, 19, 20, 23, 24, 25, 32, 33, 39, 40, 48, 49, 55, 56, 57, 64, 65, 74, 75, 76, 80, 81, 82, 88, 89, 93, 94, 95, 102, 103, 108, 109, 116, 117, 118, 119, 121, 122, 123, 128, 129, 132, 133, 138, 143, 146, 148
Concept B Create and analyze patterns represent patterns using words, tables, or graphs	Teacher's Guide: 18, 19, 20, 23, 24, 25, 32, 33, 39, 40, 48, 49, 55, 56, 57, 64, 65, 74, 75, 76, 80, 81, 82, 88, 89, 93, 94, 95, 102, 103, 108, 109, 116, 117, 118, 119, 121, 122, 123, 128, 129, 132, 133, 138, 143, 146, 148

Big Idea 2

Represent and analyze mathematical situations and structures using algebraic symbols

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Represent mathematical situations represent a mathematical situation as an expression or number sentence	Teacher's Guide: 26, 41, 67, 78, 103
Concept B Describe and use mathematical manipulation apply the commutative property to addition of whole numbers	Teacher's Guide: 20, 21, 34

Big Idea 3

Use mathematical models to represent and understand quantitative relationships

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Use mathematical models model problem situations, including multiplication with objects or drawings	Teacher's Guide: 20, 21, 22, 23, 24, 26, 27, 34, 35, 38, 39, 40, 41, 42, 45, 50, 51, 57, 59, 61, 66, 67, 70, 71, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 88, 90, 91, 94, 95, 96, 97, 98, 99, 103, 104, 105, 106, 107, 109, 111, 112, 113, 116, 117, 118, 119, 122, 125, 128, 129, 130, 131, 132, 133, 134, 135, 138

Geometric and Spatial Relationships

Big Idea 1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Describe and use geometric relationships compare two- and three-dimensional shapes by describing their attributes (circle, rectangle, rhombus, trapezoid, triangle, rectangular prism, cylinder, pyramid, sphere)	Teacher's Guide: 18, 19, 32, 33, 48, 49, 74, 75, 76, 77, 116, 117, 128, 129, 138, 140, 143, 144, 150, 153, 155
Concept C Compose and decompose shapes predict the results of putting together or taking apart two- and three-dimensional shapes	Teacher's Guide: 64, 65, 79, 80, 102, 103, 116, 117, 150

Big Idea 2

Specify locations and describe spatial relationships using coordinate geometry and other representational systems

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Use coordinate systems describe location using common language and geometric vocabulary (forward, backward, left, right, north, south, east, west)	Teacher's Guide: 19, 48, 64, 65, 74, 75

Big Idea 3

Apply transformations and use symmetry to analyze mathematical situations

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Use transformations on objects determine if two objects are congruent, through a slide, flip, or turn	Teacher's Guide: 49, 64, 116
Concept C Use symmetry. identify lines of symmetry in polygons	Teacher's Guide: 19, 48, 64, 65, 74, 75, 116, 117

Measurement

Big Idea 1

Understand measurable attributes of objects and the units, systems and processes of measurement

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Determine unit of measurement identify, justify, and use the appropriate unit of measure (linear, time, weight)	Teacher's Guide: 35, 36, 37, 38, 39, 51, 52, 53, 54, 68, 91, 105, 106, 107, 108
Concept C Tell and use units of time tell time to the nearest 5 minutes	Teacher's Guide: 37, 38, 39, 53, 54, 55, 68, 107, 108
Concept D Count and compute money determine change from \$ 5.00 and add and subtract money values to \$ 5.00	Teacher's Guide: 58, 59, 60, 71, 83, 84, 97, 98, 110, 111, 125

Big Idea 2

Apply appropriate techniques, tools and formulas to determine measurements

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Use standard or non-standard measurement use a referent for measures to make comparisons and estimates	Teacher's Guide: 36, 37, 52, 53, 92, 93, 105, 106, 120, 121
Concept C Apply geometric measurements determine the perimeter of polygons	Teacher's Guide: 78, 79, 80

Data and Probability

Big Idea 1

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Formulate questions design investigations to address a given question	Teacher's Guide: 44, 45, 58, 59, 84, 85, 98, 99, 112, 113, 134, 135
Concept C Represent and interpret data read and interpret information from line plots and graphs (bar, line, and pictorial)	Teacher's Guide: 28, 29, 44, 45, 60, 61, 84, 85, 112, 113, 134, 135

Big Idea 2

Select and use appropriate statistical methods to analyze data

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Describe and analyze data describe the shape of data and analyze it for patterns	Teacher's Guide: 28, 29, 38, 42, 44, 45, 59, 60, 61, 84, 85, 98, 99, 103, 112, 113, 134, 135

Big Idea 3

Develop and evaluate inferences and predictions that are based on data

Grade-Level Expectations, Grade 3	Every Day Counts® Calendar Math, Grade 3
Concept A Develop and evaluate inferences (A) discuss events related to students' experiences as likely or unlikely	Teacher's Guide: 8, 29, 98, 99, 117



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correlated to
Missouri Mathematics Grade-Level Expectations
Grade 4

Number and Operations

Big Idea 1

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Read, write and compare numbers read, write and compare decimals to the hundredths place, and whole numbers up to six digits	Teacher's Guide: 21, 22, 24, 27, 34, 42, 50, 51, 52, 56, 57, 58, 64, 65, 70, 71, 79, 80, 87, 94, 95, 99, 100, 108, 109, 113, 123, 136
Concept B Represent and use rational numbers use models, benchmarks (0, 1/2 and 1) and equivalent forms to judge the size of fractions	Teacher's Guide: 38, 39, 55, 68, 69, 83, 84, 127
Concept C Compose and decompose numbers recognize equivalent representations for the same number and generate them by decomposing and composing numbers	Teacher's Guide: 20, 36, 38, 39, 55, 67, 68, 69, 83, 84, 99, 102, 103, 110, 114, 120, 127, 128
Concept D Classify and describe numeric relationships classify and describe numbers by their characteristics, including odd and even multiples	Teacher's Guide: 18, 19, 20, 23, 24, 25, 26, 32, 33, 40, 41, 56, 57, 62, 70, 71, 76, 77, 78, 84, 85, 86, 92, 93, 94, 97, 98, 99, 106, 107, 108, 111, 112, 128, 129, 130, 137, 138, 139

Big Idea 2

Understand meanings of operations and how they relate to one another

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Represent operations represent and recognize multiplication using various models, including sets and arrays	Teacher's Guide: 23, 24, 25, 26, 33, 40, 41, 56, 57, 63, 70, 71, 78, 97, 98, 100, 111, 112, 128, 129, 130

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept C Apply properties of operations apply commutative and identity properties of multiplication to whole numbers	Teacher's Guide: 41, 63, 98

Big Idea 3

Compute fluently and make reasonable estimates

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Describe or represent mental strategies represent a mental strategy used to compute a given multiplication problem (up to 2-digit by 2-digit multiple of)	Teacher's Guide: 98, 100, 111, 112
Concept B Develop and demonstrate fluency demonstrate fluency with basic number relationships (12 x 12) of multiplication and division	Teacher's Guide: 20, 23, 24, 25, 26, 33, 40, 41, 49, 56, 57, 58, 63, 70, 71, 78, 97, 98, 100, 111, 112, 128, 129, 130
Concept C Compute problems apply and describe the strategy used to compute a given: <ul style="list-style-type: none"> • multiplication problem up to 2-digit by 2-digit • division problem up to 3-digit by 1-digit 	Teacher's Guide: 20, 23, 24, 25, 26, 33, 40, 41, 49, 56, 57, 58, 63, 70, 71, 78, 97, 98, 100, 111, 112, 128, 129, 130
Concept D Estimate and justify solutions estimate and justify the results of multiplication of whole numbers	Teacher's Guide: 21, 22, 23, 34, 35, 36, 50, 51, 52, 63, 64, 65, 66, 79, 80, 94, 95, 108, 109, 122, 123, 124, 136, 137

Algebraic Relationships

Big Idea 1

Understand patterns, relations and functions

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Recognize and extend patterns describe geometric and numeric patterns	Teacher's Guide: 18, 19, 20, 23, 24, 25, 32, 33, 40, 41, 48, 49, 50, 56, 57, 62, 63, 65, 70, 71, 76, 77, 78, 85, 86, 87, 92, 93, 98, 106, 107, 108, 111, 112, 120, 121, 122, 129, 134, 135, 136, 137, 138, 139
Concept B Create and analyze patterns analyze patterns using words, tables, and graphs	Teacher's Guide: 18, 19, 20, 23, 24, 25, 32, 33, 40, 41, 44, 45, 48, 49, 50, 56, 57, 62, 63, 65, 70, 71, 76, 77, 78, 85, 86, 87, 92, 93, 98, 102, 106, 107, 108, 111, 112, 120, 121, 122, 129, 134, 135, 136, 137, 138, 139

Big Idea 2

Represent and analyze mathematical situations and structures using algebraic symbols

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Represent mathematical situations represent a mathematical situation as an expression or number sentence	Teacher's Guide: 22, 25, 41, 62, 65, 66, 70, 80, 92, 97, 98, 112, 121, 122, 129
Concept B Describe and use mathematical manipulation apply the commutative property of multiplication to whole numbers	Teacher's Guide: 41, 98

Big Idea 3

Use mathematical models to represent and understand quantitative relationships

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Use mathematical models model problem situations, using representations such as graphs, tables, or number sentences	Teacher's Guide: 18, 20, 22, 23, 24, 25, 26, 27, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 88, 89, 92, 93, 94, 95, 98, 99, 100, 102, 106, 107, 108, 109, 110, 111, 112, 113, 114, 116, 117, 120, 121, 123, 125, 127, 129, 131, 134, 135, 136, 137, 138, 139

Big Idea 4

Analyze change in various contexts.

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Analyze change describe mathematical relationships in terms of constant rates of change	Teacher's Guide: 33, 78, 108

Geometric and Spatial Relationships

Big Idea 1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
<p>Concept A Describe and use geometric relationships identify and describe the attributes of 2- and 3-dimensional shapes (prisms, cones, parallelism, perpendicularity)</p>	<p>Teacher's Guide: 18, 19, 32, 33, 34, 48, 49, 76, 77, 78, 106, 107, 120, 121, 134, 135, 136</p>
<p>Concept C Compose and decompose shapes describe the results of subdividing, combining, and transforming shapes</p>	<p>Teacher's Guide: 18, 19, 32, 33, 49</p>

Big Idea 2

Specify locations and describe spatial relationships using coordinate geometry and other representational systems

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
<p>Concept A Use coordinate systems describe movement using common language and geometric vocabulary (forward, back, left, right, north, south, east, west)</p>	<p>Teacher's Guide: 18, 19, 49</p>

Big Idea 3

Apply transformations and use symmetry to analyze mathematical situations

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
<p>Use transformations on objects predict the results of sliding/translating, flipping/reflecting, or turning/rotating around the center point of a polygon</p>	<p>Teacher's Guide: 18, 19, 49, 96</p>
<p>Concept C Use symmetry construct a figure with multiple lines of symmetry and identify the lines of symmetry</p>	<p>Teacher's Guide: 32, 33, 34, 49, 106, 107</p>

Big Idea 4

Use visualization, spatial reasoning and geometric modeling to solve problems

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Recognize and draw three-dimensional representations given a picture of a prism, identify the shapes of the faces	Teacher's Guide: 76, 77, 78

Measurement

Big Idea 1

Understand measurable attributes of objects and the units, systems and processes of measurement

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Determine unit of measurement identify and justify the unit of linear measure including perimeter (customary and metric)	Teacher's Guide: 36, 37, 95, 96, 97, 124, 125, 126
Concept B Identify equivalent measures identify equivalent linear measures within a system of measurement	Teacher's Guide: 36, 37
Concept C Tell and use units of time tell time to the nearest minute	Teacher's Guide: 43, 44, 59, 72, 73, 100, 101, 113, 114, 115, 130, 131
Concept D Count and compute money determine change from \$10.00 and add and subtract money values to \$10.00	Teacher's Guide: 57, 58, 59, 72, 99, 100, 113

Big Idea 2

Apply appropriate techniques, tools and formulas to determine measurements

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Use standard or non-standard measurement select and use benchmarks to estimate measurements (linear, capacity, weight)	Teacher's Guide: 37, 53, 67, 81, 82, 110, 111
Concept B Use angle measurement select and use benchmarks to estimate measurements of 0-, 45-, and 90-degree angles	Teacher's Guide: 92, 93, 94

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept C Apply geometric measurements determine the area of a polygon on a rectangular grid	Teacher's Guide: 95, 96, 97, 124, 125, 126

Data and Probability

Big Idea 1

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Formulate questions collect data using observations, surveys and experiments	Teacher's Guide: 28, 29, 44, 45, 88, 89, 101, 102, 103, 115, 116, 117, 139
create tables or graphs to represent categorical and numerical data (including line plots)	Teacher's Guide: 23, 25, 29, 33, 35, 40, 45, 52, 66, 71, 77, 78, 80, 87, 88, 89, 95, 102, 108, 137, 139

Big Idea 2

Select and use appropriate statistical methods to analyze data

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Describe and analyze data describe the important features of the data set	Teacher's Guide: 28, 29, 44, 45, 88, 89, 101, 102, 103, 115, 116, 117, 139

Big Idea 3

Develop and evaluate inferences and predictions that are based on data

Grade-Level Expectations, Grade 4	Every Day Counts® Calendar Math, Grade 4
Concept A Develop and evaluate inferences given a set of data, propose and justify conclusions that are based on the data	Teacher's Guide: 28, 29, 44, 45, 88, 89, 101, 102, 103, 115, 116, 117, 139



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Grade 5

Number and Operations

Big Idea 1

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Read, write and compare numbers read, write, compare and order unit fractions and decimals to the thousandths	Teacher's Guide: 25, 26, 27, 28, 39, 40, 41, 45, 51, 52, 53, 56, 64, 65, 71, 81, 98, 99, 110, 121, 133
Concept B Represent and use rational numbers recognize and generate equivalent forms of commonly used fractions, decimals, and percents	Teacher's Guide: 25, 26, 27, 28, 44, 45, 56, 70, 71, 81, 98, 99, 110, 121, 133
Concept C Compose and decompose numbers recognize equivalent representations for the same number and generate them by decomposing and composing numbers	Teacher's Guide: 25, 26, 27, 28, 44, 45, 53, 56, 62, 65, 70, 71, 81, 86, 98, 99, 110, 121, 133
Concept D Classify and describe numeric relationships describe numbers according to their characteristics, including whole number factors or composite, odd or even and square numbers	Teacher's Guide: 18, 34, 35, 41, 42, 43, 44, 54, 55, 63, 64, 66, 67, 68, 75, 76, 77, 78, 82, 83, 89, 90, 91, 103, 104, 105, 106, 128, 129, 130, 131, 132

Big Idea 2

Understand meanings of operations and how they relate to one another

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Represent operations represent and recognize division using various models, including quotative and partitive	Teacher's Guide: 19, 35

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
<p>Concept B Describe effects of operations describe the effects of multiplying and dividing whole numbers as well as the relationship between the two operations</p>	<p>Teacher’s Guide: 18, 19, 20, 21, 24, 25, 34, 35, 41, 42, 43, 44, 48, 49, 54, 55, 64, 66, 67, 68, 76, 77, 78, 82, 83, 89, 90, 91, 104, 105, 106, 130, 131, 132</p>
<p>Concept C Apply properties of operations apply distributive and associative properties to whole numbers</p>	<p>Teacher’s Guide: 24, 25, 55, 62, 83, 91, 117</p>

Big Idea 3

Compute fluently and make reasonable estimates

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
<p>Concept A Describe or represent mental strategies describe a mental strategy used to compute a given division problem, where the quotient is a multiple of ten and the divisor is a 1-digit number (e.g., $350/7$)</p>	<p>Teacher’s Guide: 37, 124</p>
<p>Concept C Compute problems apply and describe the strategy used to compute a given division problem up to a 3-digit by 2-digit</p>	<p>Teacher’s Guide: 19, 35</p>
<p>Concept D Estimate and justify solutions estimate and justify the results of division of whole numbers</p>	<p>Teacher’s Guide: 37, 124</p>

Algebraic Relationships

Big Idea 1

Understand patterns, relations and functions

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
<p>Concept A Recognize and extend patterns make and describe generalizations about geometric and numeric patterns</p>	<p>Teacher’s Guide: 18, 19, 20, 21, 34, 35, 36, 37, 48, 49, 63, 64, 74, 75, 76, 82, 83, 87, 89, 102, 103, 116, 117, 128, 129, 130</p>
<p>Concept B Create and analyze patterns represent and analyze patterns using words, tables, and graphs</p>	<p>Teacher’s Guide: 18, 19, 20, 21, 34, 35, 36, 37, 48, 49, 63, 64, 74, 75, 76, 82, 83, 87, 89, 102, 103, 116, 117, 128, 129, 130</p>

Big Idea 2

Represent and analyze mathematical situations and structures using algebraic symbols

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Represent mathematic situations represent a mathematical situation as an expression or number sentence using a letter or symbol	Teacher's Guide: 24, 91, 117, 118
Concept B Describe and use mathematical manipulation apply the distributive and associative properties to whole numbers	Teacher's Guide: 24, 25, 55, 62, 83, 91, 117

Big Idea 3

Use mathematical models to represent and understand quantitative relationships

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Use mathematical models model problem situations and draw conclusions, using representations such as graphs, tables, or number sentences	Teacher's Guide: 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 31, 34, 35, 36, 38, 39, 40, 41, 42, 43, 45, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 62, 63, 64, 65, 66, 67, 68, 71, 74, 75, 77, 78, 79, 80, 81, 82, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 96, 97, 98, 99, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 116, 117, 118, 119, 120, 121, 122, 125, 128, 129, 130, 131, 132, 133

Big Idea 4

Analyze change in various contexts.

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Analyze change identify, model, and describe situations with constant or varying rates of change	Teacher's Guide: 20, 48, 49, 83, 91, 117

Geometric and Spatial Relationships

Big Idea 1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Describe and use geometric relationships analyze 2- and 3-dimensional shapes by describing their attributes	Teacher's Guide: 18, 19, 20, 21, 31, 34, 35, 36, 37, 48, 74, 75, 76, 87, 88, 89, 90, 107

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept C Compose and decompose shapes predict and justify the results of subdividing, combining, and transforming shapes	Teacher's Guide: 19, 48, 49

Big Idea 2

Specify locations and describe spatial relationships using coordinate geometry and other representational systems

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Use coordinate systems use coordinate systems to specify locations, describe paths and find the distance between points along horizontal and vertical lines	Teacher's Guide: 83, 118

Big Idea 3

Apply transformations and use symmetry to analyze mathematical situations

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Use transformations on objects predict, draw, and describe the results of sliding/translating, flipping/reflecting, and turning/rotating around a center point of a polygon	Teacher's Guide: 19, 21, 36, 48, 49, 118

Big Idea 4

Use visualization, spatial reasoning and geometric modeling to solve problems

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Recognize and draw three-dimensional representations given a net of a prism or cylinder, identify the 3-dimensional shape	Teacher's Guide: 87, 88, 89, 90

Measurement

Big Idea 1

Understand measurable attributes of objects and the units, systems and processes of measurement

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Determine unit of measurement identify and justify the unit of measure for area (customary and metric)	Teacher's Guide: 55, 82, 91
Concept B Identify equivalent measures identify the equivalent weights and equivalent capacities within a system of measurement	Teacher's Guide: 94, 95, 96, 98, 118, 119, 120
Concept C Tell and use units of time solve problems involving elapsed time (hours)	Teacher's Guide: 69, 70, 86

Big Idea 2

Apply appropriate techniques, tools and formulas to determine measurements

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept C Apply geometric measurements describe how to solve problems involving the area of polygons and non-polygonal regions imposed on a rectangular grid	Teacher's Guide: 55, 82, 91
Concept E Use relationships within a measurement system convert from one unit to another within a system of measurement	Teacher's Guide: 94, 95, 96, 98, 118, 119, 120

Data and Probability

Big Idea 1

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Formulate questions evaluate data collection methods	Teacher's Guide: 28, 29, 30, 31, 57, 58, 59, 82, 83, 112, 113, 122, 123, 124, 125

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept C Represent and interpret data describe methods to collect, organize, and represent categorical and numerical data	Teacher's Guide: 28, 29, 30, 31, 57, 58, 59, 82, 83, 112, 113, 122, 123, 124, 125

Big Idea 2

Select and use appropriate statistical methods to analyze data

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Describe and analyze data compare related data sets	Teacher's Guide: 30, 57, 58, 59, 113, 122, 125
Concept B Compare data representations compare different representations of the same data and evaluate how well each representation shows important aspects of the data	Teacher's Guide: 30, 31, 82, 83

Big Idea 3

Develop and evaluate inferences and predictions that are based on data

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Develop and evaluate inferences given a set of data, make and justify predictions	Teacher's Guide: 28, 29, 30, 31, 57, 58, 59, 82, 83, 112, 113, 122, 123, 124, 125

Big Idea 4

Understand and apply basic concepts of probability

Grade-Level Expectations, Grade 5	Every Day Counts® Calendar Math, Grade 5
Concept A Apply basic concepts of probability describe the degree of likelihood of events using words such as certain, equally likely, and impossible	Teacher's Guide: 28, 29, 30, 94, 112, 113



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Grade 6

Number and Operations

Big Idea 1

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Grade-Level Expectations, Grade 6	Every Day Counts [®] Calendar Math, Grade 6
<p>Concept A Read, write and compare numbers compare and order integers, positive rationals, and percents, including their approximate location on a number line</p>	<p>Teacher's Guide: 4, 5, 6, 7, 9, 11, 12, 20, 21, 28, 29, 30, 31, 37, 38, 39, 39, 40, 44, 45, 46, 47, 54, 55, 58, 62, 63, 65, 66, 67, 74, 75, 76, 79, 80, 81, 82, 83, 87, 88, 89, 96, 97, 98, 99, 111, 112, 113, 114, 116, 117, 118, 119, 132, 133, 134, 135, 136, 144, 145, 146, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162</p>
<p>Concept B Represent and use rational numbers recognize and generate equivalent forms of fractions, decimals, and percents</p>	<p>Teacher's Guide: 7, 8, 9, 14, 15, 16, 21, 22, 31, 32, 40, 41, 42, 49, 55, 56, 64, 75, 76, 77, 77, 78, 79, 95</p>
<p>Concept C Compose and decompose numbers recognize equivalent representations of the same number and generate them by decomposing and composing numbers, including expanded notation</p>	<p>Teacher's Guide: 5, 6, 20, 21, 37, 38, 39, 54, 73, 74, 75</p>
<p>Concept D Classify and describe numeric relationships use factors and multiples to describe the relationships between and among numbers, including whole number common factors and multiples</p>	<p>Teacher's Guide: 2, 3, 4, 5, 6, 18, 19, 20, 21, 37, 38, 39, 54, 74, 75</p>

Big Idea 2

Understand meanings of operations and how they relate to one another

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept B Describe effects of operations describe the effects of addition and subtraction of fractions and decimals	Teacher's Guide: 95, 104

Big Idea 3

Compute fluently and make reasonable estimates

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept C Compute problems add and subtract positive rational numbers	Teacher's Guide: 95, 104
Concept D Estimate and justify solutions estimate and justify the results of addition and subtraction of positive rational numbers	Teacher's Guide: 95, 104
Concept E Use proportional reasoning solve problems using equivalent ratios	Teacher's Guide: 23, 24, 25, 26, 27, 28

Algebraic Relationships

Big Idea 1

Understand patterns, relations and functions

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept B Create and analyze patterns represent and describe patterns with tables, graphs, pictures, symbolic rules or words	Teacher's Guide: 1, 2, 3, 4, 9, 10, 11, 12, 13, 18, 19, 28, 29, 30, 31, 34, 35, 36, 51, 52, 53, 62, 63, 69, 70, 71, 72, 79, 80, 81, 91, 92, 93, 94, 96, 97, 106, 107, 108, 109, 111, 112, 113, 114, 132, 133, 134, 135, 146, 147, 148, 149, 150, 151
Concept C Classify objects and representations compare various forms of representations to identify a pattern	Teacher's Guide: 1, 2, 3, 4, 9, 10, 11, 12, 13, 18, 19, 28, 29, 30, 31, 34, 35, 36, 51, 52, 53, 62, 63, 69, 70, 71, 72, 79, 80, 81, 91, 92, 93, 94, 96, 97, 106, 107, 108, 109, 111, 112, 113, 114, 132, 133, 134, 135, 146, 147, 148, 149, 150, 151
Concept D Identify and compare functions identify functions as linear or nonlinear from a table or a graph	Teacher's Guide: 30, 31, 62, 63

Big Idea 2

Represent and analyze mathematical situations and structures using algebraic symbols

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Represent mathematical situations use variables to represent unknown quantities in expressions	Teacher's Guide: 12, 13, 28, 29, 30, 31, 48, 62, 63, 82, 83, 111, 112, 113, 114, 134, 135, 151, 152
Concept B Describe and use mathematical manipulation recognize equivalent forms for simple algebraic expressions (associative, distributive properties)	Teacher's Guide: 12, 82, 83, 152

Big Idea 3

Use mathematical models to represent and understand quantitative relationships

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Use mathematical models model and solve problems, using multiple representations such as graphs, tables, expressions, and equations	Teacher's Guide: 1, 2, 3, 4, 9, 10, 11, 12, 13, 18, 19, 28, 29, 30, 31, 34, 35, 36, 48, 51, 52, 53, 62, 63, 69, 70, 71, 72, 79, 80, 81, 83, 91, 92, 93, 94, 96, 97, 106, 107, 108, 109, 111, 112, 113, 114, 132, 133, 134, 135, 146, 147, 148, 149, 150, 151, 152

Big Idea 4

Analyze change in various contexts.

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Analyze change compare situations with constant or varying rates of change	Teacher's Guide: 30, 31, 63, 82, 83, 101, 151, 152, 153, 154, 155, 156, 157

Geometric and Spatial Relationships

Big Idea 1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Describe and use geometric relationships identify the properties of 1-, 2-, and 3-dimensional shapes using the proper geometric vocabulary	Teacher's Guide: 34, 35, 36, 51, 52, 53, 91, 92, 93, 94, 106, 107, 108, 109, 123, 124, 125, 126, 127, 128, 141, 142, 143

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept B Apply geometric relationships describe relationships between corresponding angles and the length of corresponding sides of similar triangles (whole number scale factors)	Teacher's Guide: 97

Big Idea 3

Apply transformations and use symmetry to analyze mathematical situations

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Use transformations on objects describe the transformation from a given pre-image to its image using the terms reflection/flips, rotation/turn, and translation/slide	Teacher's Guide: 46, 47, 52, 70, 91, 92, 93, 94, 109
Concept C Use symmetry create polygons and designs with rotational symmetry	Teacher's Guide: 5, 6, 52, 70, 71, 72, 91, 92, 93, 94, 109

Big Idea 4

Use visualization, spatial reasoning and geometric modeling to solve problems

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Recognize and draw three-dimensional representations use spatial visualization to identify isometric representations of net plans	Teacher's Guide: 162
Concept B Draw and use visual models draw or use visual models to represent and solve problems	Teacher's Guide: 111, 112, 113, 114, 128, 129, 130, 131, 151, 152

Measurement

Big Idea 1

Understand measurable attributes of objects and the units, systems and processes of measurement

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Determine unit of measurement identify and justify an angle as acute, obtuse, straight, or right	Teacher's Guide: 106, 107, 108, 109

Big Idea 2

Apply appropriate techniques, tools and formulas to determine measurements

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Use standard or non-standard measurement estimate a measurement using either standard or nonstandard unit of measure	Teacher's Guide: 119, 120, 121
Concept B Use angle measurement select and use benchmarks to estimate measurements of 0-, 45-, 90-, 180-, and 360-degree angles	Teacher's Guide: 42, 43, 44, 57
Concept C Apply geometric measurements describe how to solve problems involving the area and perimeter of polygons	Teacher's Guide: 9, 10, 11, 12, 28, 29, 44, 45, 46, 47
Concept E Use relationships within a measurement system convert from one unit to another within a system of measurement (mass and weight)	Teacher's Guide: 104, 136, 137, 138, 139

Data and Probability

Big Idea 1

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Formulate questions formulate questions, design studies, and collect data about a characteristic	Teacher's Guide: 87, 101, 102, 103, 144, 145, 153, 154, 155, 156, 157
Concept C Represent and interpret data interpret circle graphs; create and interpret stem-and-leaf plots	Teacher's Guide: 87, 88, 89, 116, 117, 118, 119

Big Idea 2

Select and use appropriate statistical methods to analyze data

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Describe and analyze data find the range and measures of center, including median, mode, and mean	Teacher's Guide: 65, 66, 67, 87, 88, 89, 157
Concept B Compare data representations compare different representations of the same data and evaluate how well each representation shows important aspects of the data	Teacher's Guide: 87, 88, 89, 153, 155, 156, 157

Big Idea 3

Develop and evaluate inferences and predictions that are based on data

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Develop and evaluate inferences use observations about differences between two samples to make conjectures about the populations from which the samples were taken	Teacher's Guide: 87, 88, 89, 101, 102, 103, 104

Big Idea 4

Understand and apply basic concepts of probability

Grade-Level Expectations, Grade 6	Every Day Counts® Calendar Math, Grade 6
Concept A Apply basic concepts of probability use a model (diagrams, list, sample space, or area model) to illustrate the possible outcomes of an event	Teacher's Guide: 128, 129, 144, 145, 146



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