

Grade 3

Grade 3 SPI 0306.1.1	Solve problems using a calendar.				MEAS	4	2a) Select or use appropriate type of unit for the attribute being measured such as length, time, or temperature.
Grade 3 SPI 0306.1.2	Solve problems involving elapsed time.				MEAS	4	2a) Select or use appropriate type of unit for the attribute being measured such as length, time, or temperature.
Grade 3 SPI 0306.1.3	Determine the correct change from a transaction less than a dollar.	BOA	16-19	Solve routine one-step arithmetic problems (using whole numbers, fractions, and decimals) such as single-step percent	NPO	4	3a) Add and subtract: <ul style="list-style-type: none">• Whole numbers, or• Fractions with like denominators, or• Decimals through hundredths.
Grade 3 SPI 0306.1.4	Match the spoken, written, concrete, and pictorial representations of fractions with denominators up to ten.				NPO	4	1e) Connect model, number word, or number using various models and representations for whole numbers, fractions, and decimals.
Grade 3 SPI 0306.1.5	Represent problems mathematically using diagrams, numbers,	PSDA	24-27	Use Venn diagrams in counting	ALG	4	1d) Create a different representation of a pattern or sequence given a verbal description.

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	and symbolic expressions.						2a) Translate between the different forms of representations (symbolic, numerical, verbal, or pictorial) of whole number relationships (such as from a written description to an equation or from a function table to a written description).
Grade 3 SPI 0306.1.6	Identify and use vocabulary to describe attributes of two- and three-dimensional shapes.				GEO	4	1b) Identify or describe (informally) real-world objects using simple plane figures (e.g., triangles, rectangles, squares, and circles) and simple solid figures (e.g., cubes, spheres, and cylinders).
Grade 3 SPI 0306.1.7	Select appropriate units and tools to solve problems involving measures.				DASP MEAS	4 4	1e) Select or use appropriate measurement instruments such as ruler, meter stick, clock, thermometer, or other scaled instruments. 2e) Determine situations in which a highly accurate measurement is important. 2a) Select or use appropriate type of unit for the attribute being measured such as length, time, or temperature.
Grade 3 SPI 0306.1.8	Express answers clearly in verbal, numerical, or graphical (bar and picture) form, using units when appropriate				DASP MEAS	4 4	1b) For a given set of data, complete a graph (limits of time make it difficult to construct graphs completely). 2a) Select or use appropriate type of unit for the attribute being measured such as length, time, or temperature.
Grade 3 SPI 0306.2.1	Read and write numbers up to 10,000 in numerals and up to 1,000 in words.	NCP	16-19	Identify a digit's place value	NPO	4	1a) Identify the place value and actual value of digits in whole numbers. 1b) Represent numbers using models such as base 10 representations, number lines, and two-dimensional models.
Grade 3 SPI 0306.2.2	Identify the place value of numbers in the ten-thousands, thousands, hundreds, tens, and ones	NCP	16-19	Identify a digit's place value	NPO	4	1a) Identify the place value and actual value of digits in whole numbers.

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	positions.						
Grade 3 SPI 0306.2.3	Convert between expanded and standard form with whole numbers to 10,000.				NPO	4	1c) Compose or decompose whole quantities by place value (e.g., write whole numbers in expanded notation using place value: $342 = 300 + 40 + 2$).
Grade 3 SPI 0306.2.4	Compare and order numbers up to 10,000 using the words less than, greater than, and equal to, and the symbols $<$, $>$, $=$.				NPO	4	1i) Order or compare whole numbers, decimals, or fractions.
Grade 3 SPI 0306.2.5	Identify various representations of multiplication and division.				NPO	4	3b) Multiply whole numbers: <ul style="list-style-type: none"> • No larger than two-digit by two-digit with paper and pencil computation, or • Larger numbers with use of calculator.
Grade 3 SPI 0306.2.6	Recall basic multiplication facts through 10 times 10 and the related division facts.				NPO	4	3b) Multiply whole numbers: <ul style="list-style-type: none"> • No larger than two-digit by two-digit with paper and pencil computation, or • Larger numbers with use of calculator.
Grade 3 SPI 0306.2.7	Compute multiplication problems that involve multiples of ten using basic number facts.				NPO	4	3e) Interpret whole number operations and the relationships between them.
Grade 3 SPI 0306.2.8	Solve problems that involve the inverse relationship between multiplication and division.				NPO	4	3f) Solve application problems involving numbers and operations.
Grade 3 SPI 0306.2.9	Solve contextual problems involving the addition and subtraction (with and without regrouping)				NPO	4	1e) Connect model, number word, or number using various models and representations for whole numbers, fractions, and decimals. 2) Use benchmarks (well-known numbers

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	of two- and three digit whole numbers.						used as meaningful points for comparison) for whole numbers, decimals, or fractions in contexts (e.g., 1/2 and .5 may be used as benchmarks for fractions and decimals between 0 and 1.00).
Grade 3 SPI 0306.2.10	Identify equivalent fractions given by various representations.	NCP	13-15	Recognize equivalent fractions and fractions in lowest terms	NPO	4	1e) Connect model, number word, or number using various models and representations for whole numbers, fractions, and decimals.
Grade 3 SPI 0306.2.11	Recognize and use different interpretations of fractions.				NPO	8	1b) Model or describe rational numbers or numerical relationships using number lines and diagrams.
Grade 3 SPI 0306.2.12	Name fractions in various contexts that are less than, equal to, or greater than one.	NCP	24-27	Order fractions	NPO	4	1i) Order or compare whole numbers, decimals, or fractions.
Grade 3 SPI 0306.2.13	Recognize, compare, and order fractions (benchmark fractions, common numerators, or common denominators).	NCP	13-15 24-27	Recognize equivalent fractions and fractions in lowest terms Order fractions	NPO	4	1i) Order or compare whole numbers, decimals, or fractions.
Grade 3 SPI 0306.2.14	Add and subtract fractions with like denominators	BOA NCP	16-19 13-15 24-27	Solve routine one-step arithmetic problems (using whole numbers, fractions, and decimals) such as single-step percent Recognize equivalent fractions and fractions in lowest terms Order fractions	NPO	4	3a) Add and subtract: <ul style="list-style-type: none"> • Whole numbers, or • Fractions with like denominators, or • Decimals through hundredths.
Grade 3 SPI 0306.3.1	Verify a conclusion using algebraic properties.	NCP	33-36	Draw conclusions based on number concepts, algebraic properties, and/or relationships between expressions and numbers	ALG	4	5a) Verify a conclusion using algebraic properties.

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Grade 3 SPI 0306.3.2	Express mathematical relationships using number sentences/equations.	EEI	13-15	Exhibit knowledge of basic expressions (e.g., identify an expression for a total as $b + g$)	ALG	4	3b) Express simple mathematical relationships using number sentences.
Grade 3 SPI 0306.3.3	Find the missing values in simple multiplication and division equations.	EEI	13-15 16-19	Solve equations in the form $x + a = b$, where a and b are whole numbers or decimals Solve one-step equations having integer or decimal answers.	ALG	4	4a) Find the value of the unknown in a whole number sentence.
Grade 3 SPI 0306.3.4	Describe or extend (including finding missing terms) geometric and numeric patterns				ALG	4	1a) Recognize, describe, or extend numerical patterns.
Grade 3 SPI 0306.4.1	Recognize polygons and be able to identify examples based on geometric definitions.				GEO	4	1b) Identify or describe (informally) real-world objects using simple plane figures (e.g., triangles, rectangles, squares, and circles) and simple solid figures (e.g., cubes, spheres, and cylinders).
Grade 3 SPI 0306.4.2	Determine if two figures are congruent based on size and shape.				GEO	4	2e) Match or draw congruent figures in a given collection.
Grade 3 SPI 0306.4.3	Identify the line of symmetry in a two-dimensional design or shape.				GEO	4	2a) Identify whether a figure is symmetrical, or draw lines of symmetry.
Grade 3 SPI 0306.4.4	Calculate the perimeter of shapes made from polygons.	MEAS	16-19 20-23 33-36	Compute the perimeter of polygons when all side lengths are given Compute the perimeter of polygons when all side lengths are given Compute the area of composite geometric figures when planning or visualization is required	MEAS	4	1f) Solve problems involving perimeter of plane figures.
Grade 3 SPI 0306.4.5	Choose reasonable units of measure, estimate common				MEAS	4	1e) Select or use appropriate measurement instruments such as ruler, meter stick, clock, thermometer, or other scaled instruments.

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	measurements using benchmarks, and use appropriate tools to make measurements.						2a) Select or use appropriate type of unit for the attribute being measured such as length, time, or temperature
Grade 3 SPI 0306.4.6	Measure length to the nearest centimeter or half inch.				MEAS	4	1e) Select or use appropriate measurement instruments such as ruler, meter stick, clock, thermometer, or other scaled instruments. 2a) Select or use appropriate type of unit for the attribute being measured such as length, time, or temperature.
Grade 3 SPI 0306.4.7	Solve problems requiring the addition and subtraction of lengths	MEAS	16-19 20-23	Compute the perimeter of polygons when all side lengths are given Compute the area and perimeter of triangles and rectangles in simple problems	MEAS	4	1f) Solve problems involving perimeter of plane figures.
Grade 3 SPI 0306.5.1	Interpret a frequency table, bar graph, pictograph, or line plot.	PSDA	16-19 28-32	Read tables and graphs Interpret and use information from figures, tables, and graphs	DASP	4	1 a) Read or interpret a single set of data.
Grade 3 SPI 0306.5.2	Solve problems in which data is represented in tables or graph.	PSDA	13-15 24-27	Perform a single computation using information from a table or chart Manipulate data from tables and graphs	DASP	8	1 b) For a given set of data, complete a graph and then solve a problem using the data in the graph (histograms, line graphs, scatterplots, circle graphs, and bar graphs).
Grade 3 SPI 0306.5.3	Make predictions based on various representations of data				DASP	4	1c) Solve problems by estimating and computing within a single set of data.