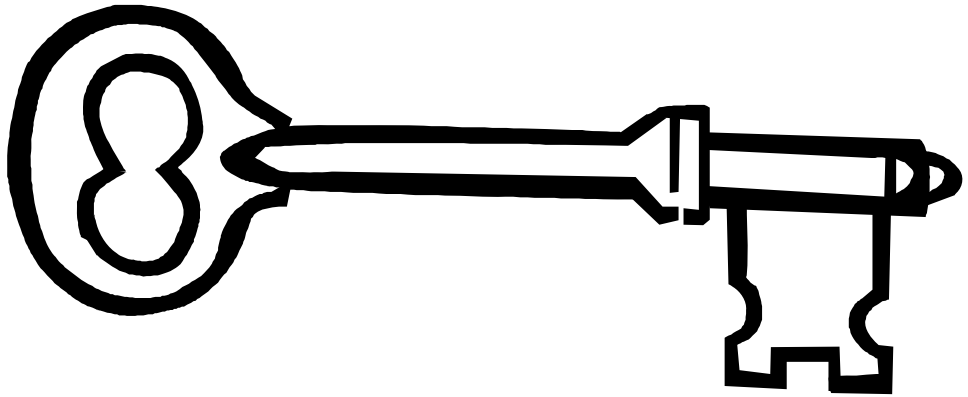
BAKERSFIELD CITY SCHOOL DISTRICT
Education Center – 1300 Baker Street
Bakersfield, California 93305

Curriculum & Standards

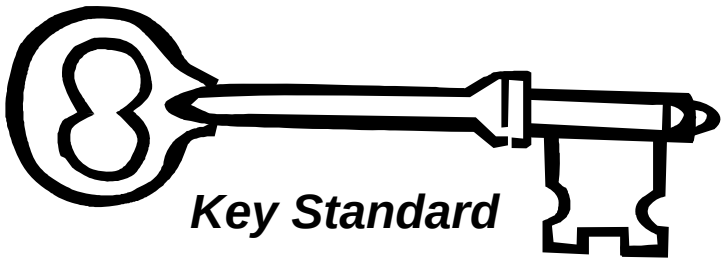
California Math Standards
Grade 4



Mathematics - Grade 4
NUMBER SENSE

NS 1.1

I can read and write whole numbers in the millions.

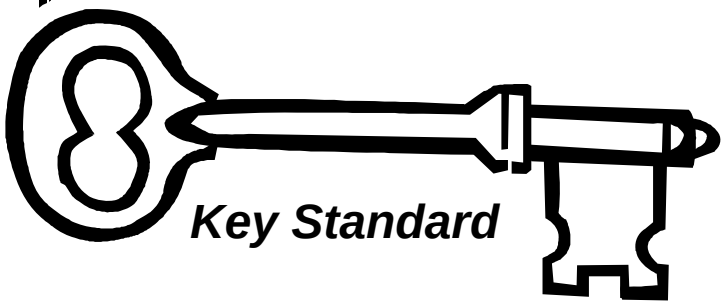


Units: 1, 4, and 5

Mathematics - Grade 4
NUMBER SENSE

NS 1.2

I can order and compare whole numbers and decimals to two decimal places.

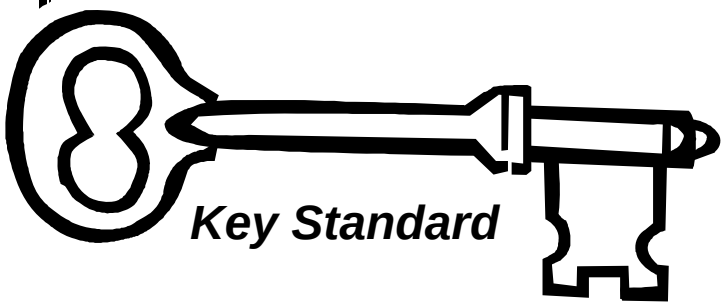


Units: 1, 6, 9, and 10

Mathematics - Grade 4
NUMBER SENSE

NS 1.3

I can round numbers through the millions to the nearest ten, hundred, thousand, ten thousand, or hundred thousand.

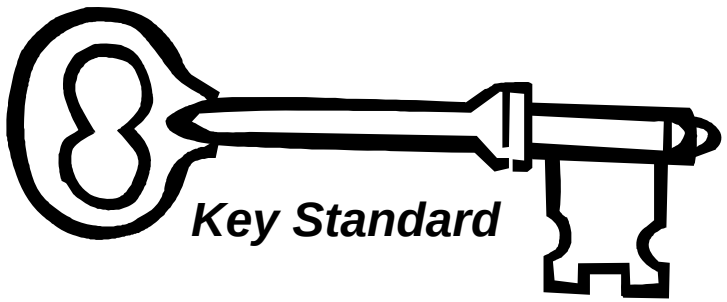


Units: 1, 2, and 9

Mathematics - Grade 4
NUMBER SENSE

NS 1.4

I can decide when a rounded solution is called for and explain why such a solution may be appropriate.



Units: 1, 2, 5, 7, and 9

Mathematics - Grade 4
NUMBER SENSE

NS 1.5

I can explain that parts of a whole, parts of a set and division of whole numbers **by** whole numbers are all fractions.

Unit: 8

Mathematics - Grade 4
NUMBER SENSE

NS 1.6

- I can write tenths and hundredths in both decimals and fractions.
- I know the fraction and decimal equivalents for halves and fourths.

Units: 8 and 9

Mathematics - Grade 4
NUMBER SENSE

NS 1.7

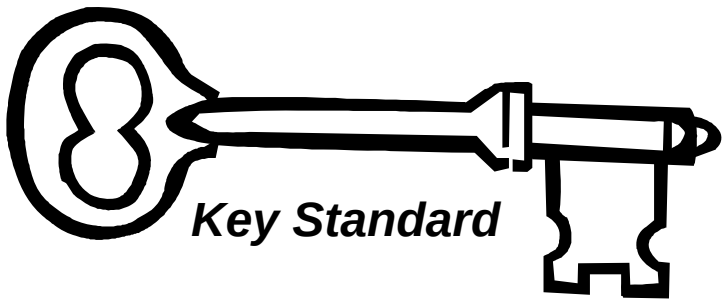
- I can write the fraction shown in a drawing.
- I can draw a figure to show a fraction.
- I can find the equivalent decimal of a fraction on a number line.

Unit: 8

Mathematics - Grade 4
NUMBER SENSE

NS 1.8

I can use negative numbers on a number line, in counting, in temperature and in "owing."

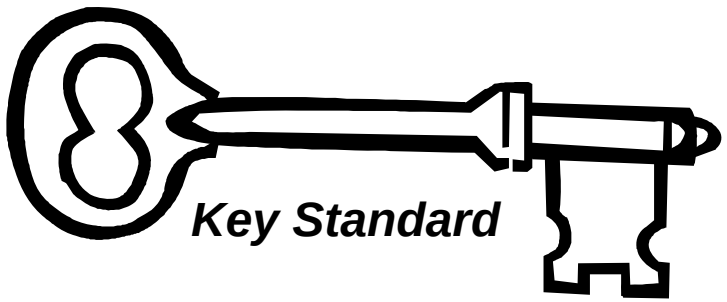


Units: 7, 10, and 11

Mathematics - Grade 4
NUMBER SENSE

NS 1.9

I can identify on a number line the position of positive fractions, positive mixed numbers, and positive decimals up to two decimal places.



Units: 7, 8, and 9

Mathematics - Grade 4
NUMBER SENSE

NS 2.1

I can estimate and compute the sum or difference of whole numbers and positive decimals to the hundredths place.

Units: 2 and 9

Mathematics - Grade 4
NUMBER SENSE

NS 2.2

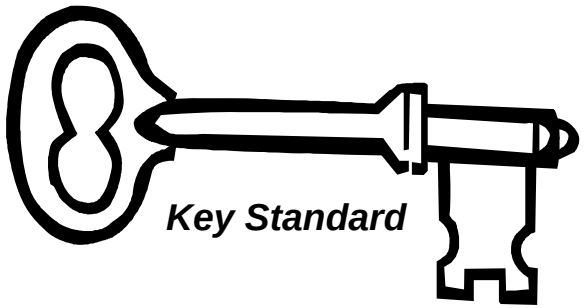
- I can round hundredths to tenths or the nearest whole number.
- I can decide whether a rounded answer is reasonable.

Unit: 9

Mathematics - Grade 4
NUMBER SENSE

NS 3.0

- I can solve addition, subtraction, multiplication, and division problems.
- I understand how these types of problems relate to each other.



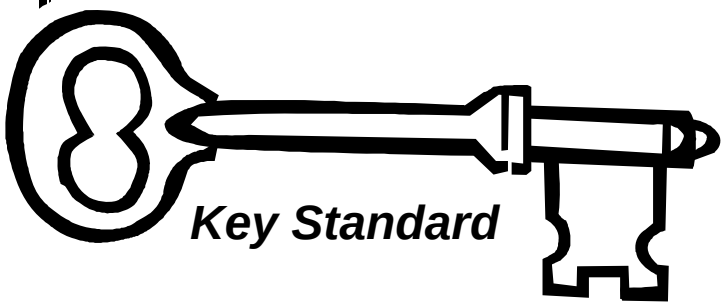
Units: 1, 3, 4, 5 and 6

*** Overarching standard-descriptive statement that precedes a set of standards.**

Mathematics - Grade 4
NUMBER SENSE

NS 3.1

I can use the correct process to add and subtract multi-digit numbers.

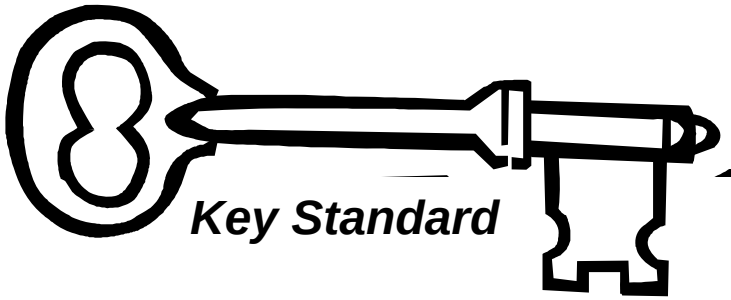


Units: 2, 4, 6, and 7

Mathematics - Grade 4
NUMBER SENSE

NS 3.2

- I know how to multiply a multi-digit number by a two-digit number.
- I know how to divide a multi-digit number by a one-digit number.
- I can use the relationship between them to simplify how I do the problem and to check my answers.

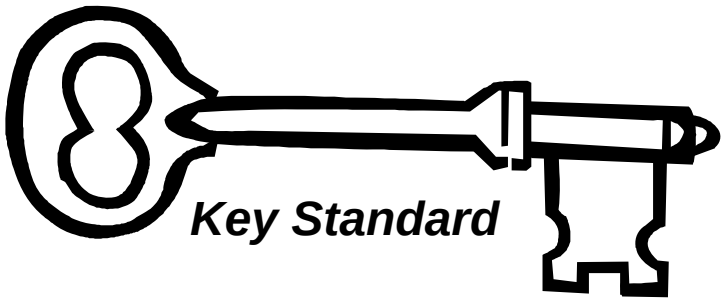


Units: 3, 5, 6, and 7

Mathematics - Grade 4
NUMBER SENSE

NS 3.3

I can solve problems using multiplication of multi-digit numbers by two-digit numbers.

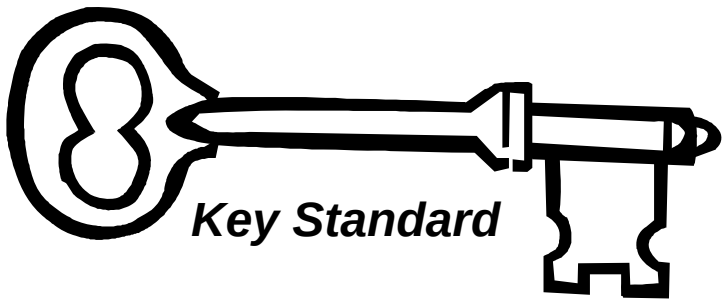


Units: 5, 7 and 9

Mathematics - Grade 4
NUMBER SENSE

NS 3.4

I can solve problems using division of multi-digit numbers by one-digit numbers.



Units: 3, 6, and 7

Mathematics - Grade 4
NUMBER SENSE

NS 4.1

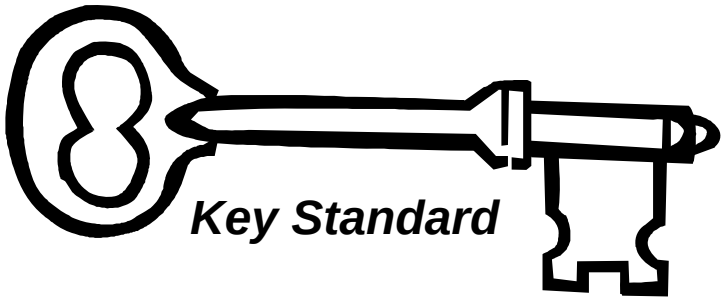
I understand that many whole numbers break down in different ways.

Units: 3 and 6

Mathematics - Grade 4
NUMBER SENSE

NS 4.2

I know that numbers such as 2, 3, 5, 7, and 11 do not have any factors except 1 and themselves and that such numbers are called prime numbers.



Unit: 6

Mathematics - Grade 4
Algebra and Functions

AF 1.1

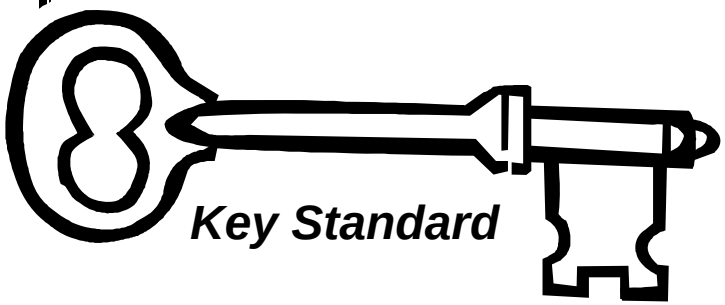
I can use letters, boxes, or other symbols to stand for any numbers in equations.

Units: 2, 3 and 5

Mathematics - Grade 4
Algebra and Functions

AF 1.2

I can solve problems that use parentheses.

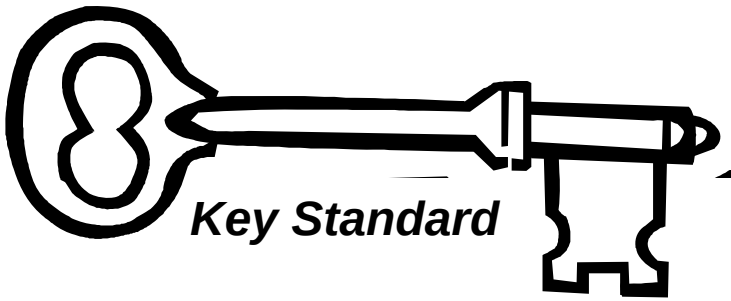


Units: 2, 3, 4, 5, and 6

Mathematics - Grade 4
Algebra and Functions

AF 1.3

- I can use parentheses to show which operation to do first when writing expressions with more than two terms and different operations.



Units: 2 and 3

Mathematics - Grade 4
Algebra and Functions

AF 1.4

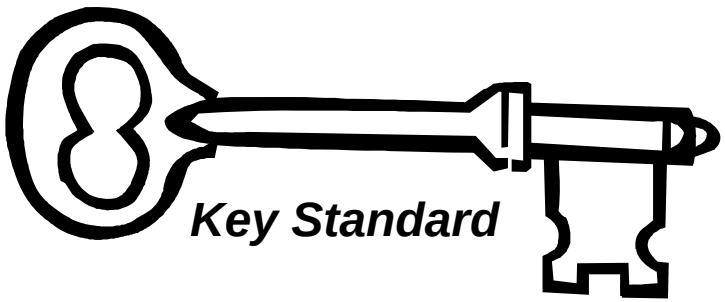
I can use formulas to answer questions about quantities and their relationships.

Units: 7 and 12

Mathematics - Grade 4
Algebra and Functions

AF 1.5

I know that an equation with two variables such as y = 3x + 5 means I can figure out the 2nd number after the first number is given.

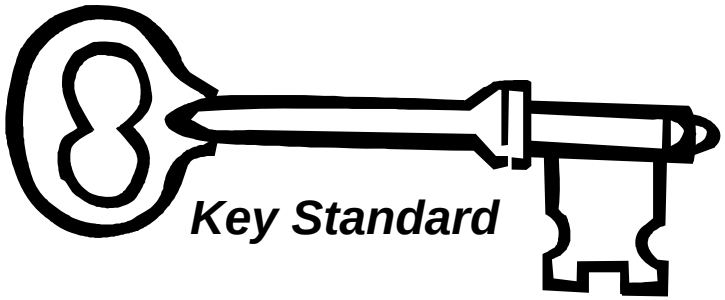


Units: 4, 5, 6, 7, and 10

Mathematics - Grade 4
Algebra and Functions

AF 2.0

I know how to use equations.



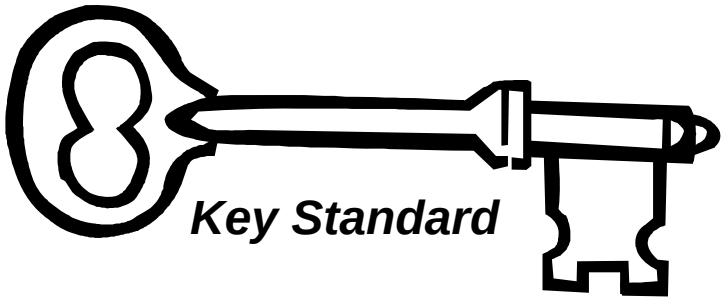
Units: 2, 3, 4, 5, 6, and 8

*** Overarching standard-descriptive statement that precedes a set of standards.**

Mathematics - Grade 4
Algebra and Functions

AF 2.1

I know and understand that equal amounts added to equal amounts are equal.

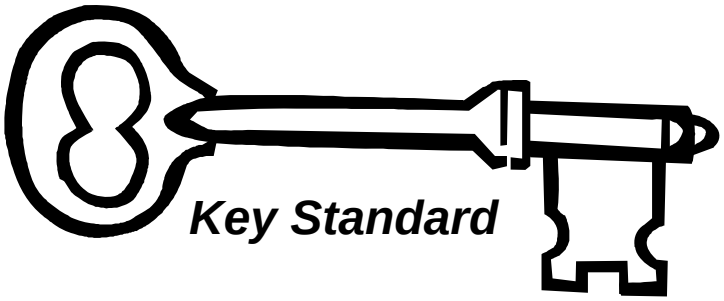


Units: 2, 4, 5, and 8

Mathematics - Grade 4
Algebra and Functions

AF 2.2

I know and understand that equal amounts multiplied by equal amounts are equal.



Units: 3, 4, 5, and 6

Mathematics - Grade 4
Measurement and Geometry

MG 1.1

I can measure the area of rectangular shapes by using appropriate units (cm^2, m^2, km^2, in^2, mi^2).

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 1.2

I can recognize that rectangles that have the same area can have different perimeters.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 1.3

I understand that rectangles that have the same perimeter can have different areas.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 1.4

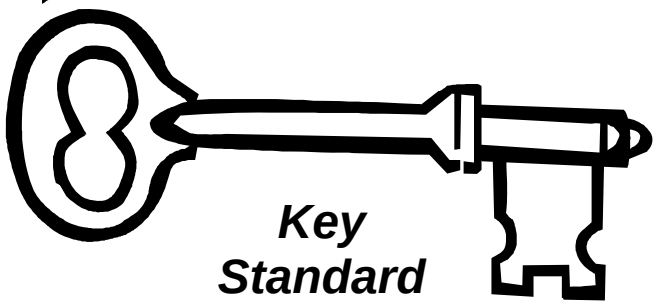
- I can use formulas to solve problems involving perimeters and areas of rectangles and squares.
- I can use these formulas to find the areas of more complex figures by dividing the figures into basic shapes.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 2.0

I can represent point, graph lines and simple figures using grids.



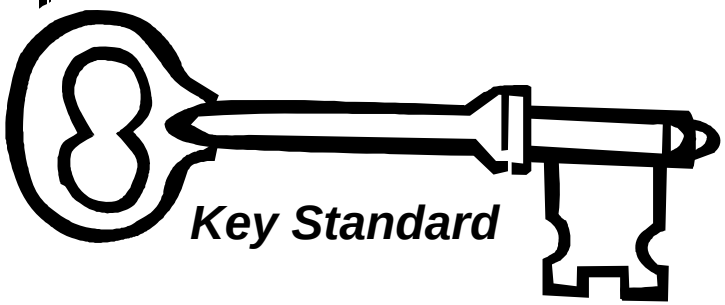
Unit: 10 and 12

***Overarching standard-descriptive statement that precedes a set of standards.**

Mathematics - Grade 4
Measurement and Geometry

MG 2.1

I can draw the points corresponding to linear relationships on graph paper.

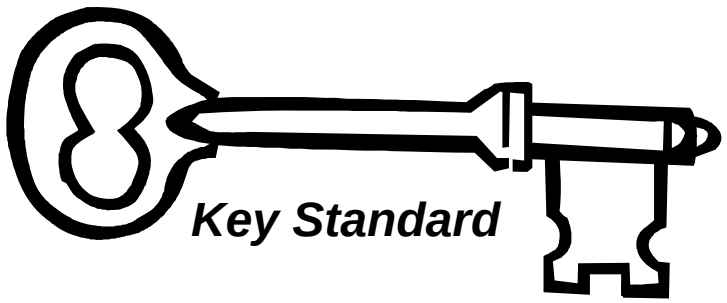


Unit: 10

Mathematics - Grade 4
Measurement and Geometry

MG 2.2

I understand that the length of a horizontal line segment equals the difference of the x-coordinate

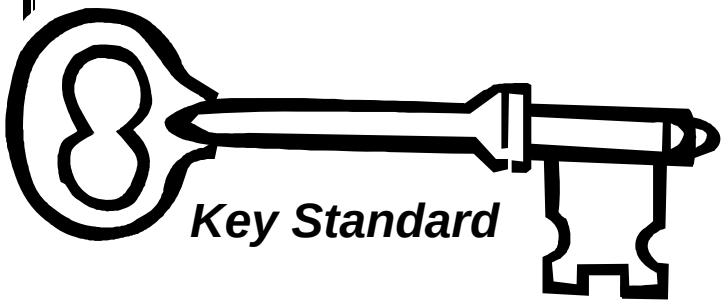


Unit: 10

Mathematics - Grade 4
Measurement and Geometry

MG 2.3

I understand that the length of a vertical line segment equals the difference of the y-coordinates.



Unit: 10

Mathematics - Grade 4
Measurement and Geometry

MG 3.1

I can identify lines that are parallel and perpendicular.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 3.2

I can identify the radius and diameter of a circle.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 3.3

I can identify congruent figures.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 3.4

I can identify figures that have bilateral and rotational symmetry.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 3.5

- I know the definitions of a right angle, an acute angle, and an obtuse angle.
- I understand that 90°, 180°, 270°, and 360° can be matched up with $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and full turns.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 3.6

- I can describe and make models of geometric solids in terms of the number and shape of faces, edges, and vertices.
- I can interpret two-dimensional objects.
- I can draw patterns for a solid that will make a model when cut out and folded.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 3.7

- I know the definition of different triangles (equilateral, isosceles, scalene).
- I can identify the attributes of different triangles.

Unit: 12

Mathematics - Grade 4
Measurement and Geometry

MG 3.8

I know the definition for each of the types of quadrilaterals (rhombus, square, rectangle, parallelogram, and trapezoid).

Unit: 12

Mathematics - Grade 4
Statistics, Data Analysis and Probability

SDAP 1.1

- I can create survey questions.
- I can collect and represent data on a number line.
- I can display the data on graphs, tables and charts.

Unit: 11

Mathematics - Grade 4
Statistics, Data Analysis and Probability

SDAP 1.2

I can identify the mean, mode, median and apparent outliers for a data set.

Unit: 11

Mathematics - Grade 4
Statistics, Data Analysis and Probability

SDAP 1.3

I can interpret one- and two-variable data graphs to answer questions about a situation.

Unit: 10 and 11

Mathematics - Grade 4
Statistics, Data Analysis and Probability

SDAP 2.1

I can show all possible outcomes for probability problems in an organized way using tables, grids and tree diagrams.

Units: 1 and 11

Mathematics - Grade 4
Statistics, Data Analysis and Probability

SDAP 2.2

I can explain and show the outcomes of probability situations using numbers.

Unit: 11

Mathematics - Grade 4
Mathematical Reasoning

MR 1.1

- I can analyze problems by:
  - Identifying relationships
  - Understanding what information is needed and not needed
  - Putting information in the right order
  - Observing patterns

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 1.2

I can decide when and how to break a problem into simpler parts.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 2.1

I can use estimation to prove if an answer is reasonable.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 2.2

I can use strategies from simple problems to help solve more difficult problems.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 2.3

I can use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain how I have solved a problem.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 2.4

- I can clearly explain solutions to problems using the right mathematical symbols and terms.
- I can justify how I have solved the problem by my work and my words.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 2.5

I know when an exact answer is needed and when it is better to estimate.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 2.6

I can calculate the correct answer and check whether my answer is correct, based on the information in the problem.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 3.1

I can evaluate to tell if my answer makes sense based on the information in the problem.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 3.2

I can show that I understand the method for solving a problem by using the same method to solve similar problems.

* Embedded across all strands

Mathematics - Grade 4
Mathematical Reasoning

MR 3.3

I see patterns in how I obtained answers so that I can apply what I have learned in other situations.

* Embedded across all strands