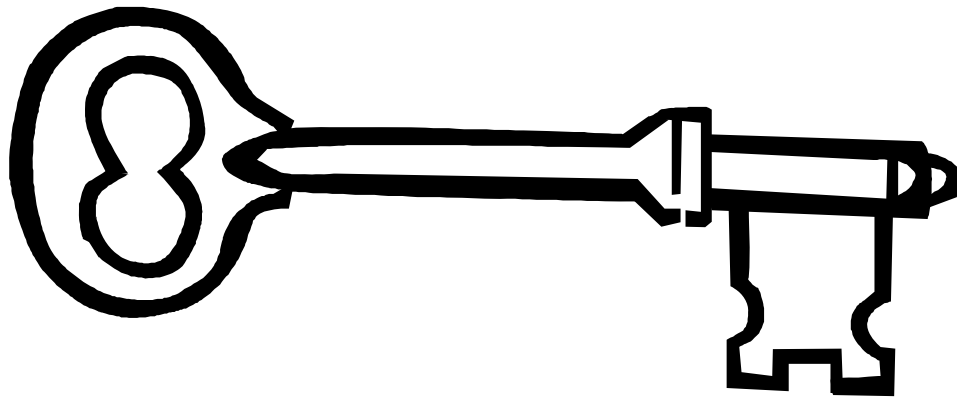


BAKERSFIELD CITY SCHOOL DISTRICT  
Education Center – 1300 Baker Street  
Bakersfield, California 93305

Curriculum & Standards

# California Math Standards Grade 5



Mathematics - Grade 5  
NUMBER SENSE

# NS 1.1

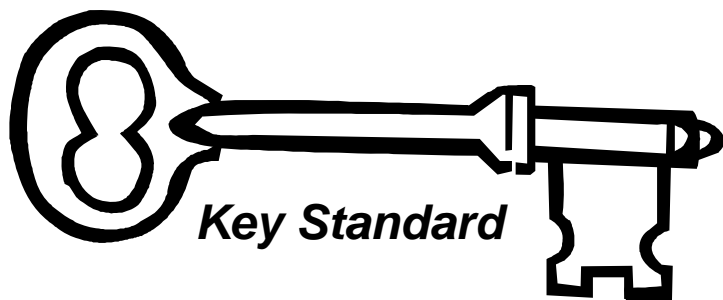
I can estimate, round, and manipulate large numbers and small numbers, from the millions to the thousandths.

Units: 2 and 8

Mathematics - Grade 5  
NUMBER SENSE

# NS 1.2

- I can explain percents as a part of a hundred and find decimal and percent equivalents for fractions.
- I know how to explain why they have the same value and can find a percent of a whole number.



Units: 2, 10, 11, and 12

Mathematics - Grade 5  
NUMBER SENSE

## NS 1.3

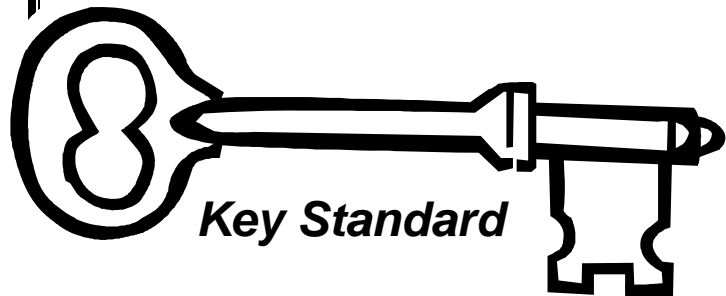
- I can understand and compute exponents.
- I can also show exponents as repeated multiplication.

Units: 1, 2, 3, 8, and 9

Mathematics - Grade 5  
NUMBER SENSE

## NS 1.4

- I can find the prime factors of all numbers through 50.
- I can write the numbers as the product of their prime factors by using exponents.

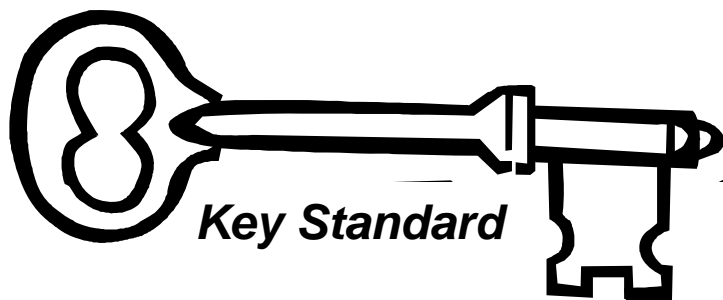


Units: 1 and 5

Mathematics - Grade 5  
NUMBER SENSE

# NS 1.5

I can identify and show on a number line decimals, fractions, mixed numbers, and positive and negative integers.

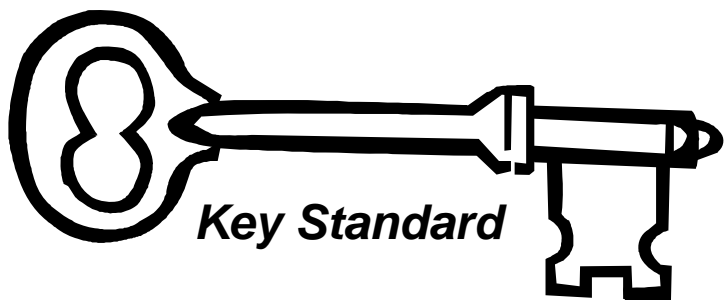


Units; 1, 2, 3, 4, 10 and 11

Mathematics - Grade 5  
NUMBER SENSE

## NS 2.1

- I can add, subtract, multiply and divide with decimals and tell if my answer is reasonable.
- I can add and subtract positive and negative integers and tell if my answer is reasonable.



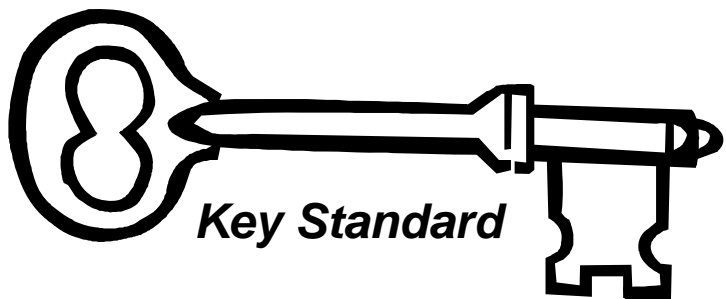
Units: 6, 8, 9 10, 11, and 12

Student Friendly Standards – Grade 5  
BCSD Curriculum & Standards

Mathematics - Grade 5  
NUMBER SENSE

NS 2.2

I can solve division problems using whole numbers, positive decimals, and multi-digit divisors.



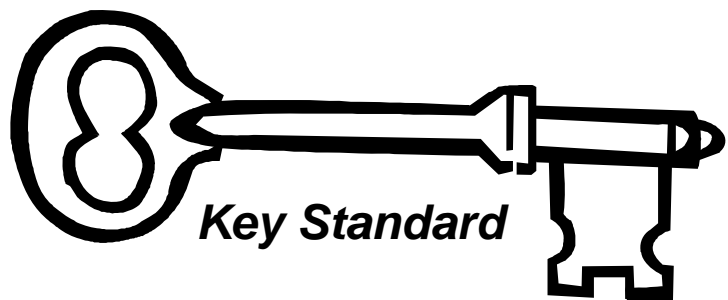
*Key Standard*

Units: 6, 7, and 8

Mathematics - Grade 5  
NUMBER SENSE

## NS 2.3

- I can solve real-life problems by adding and subtracting fractions and mixed numbers.
- I can write the answers in simplest form.



*Key Standard*

Units: 1, 3, 4, 5, and 8

Mathematics - Grade 5  
NUMBER SENSE

NS 2.4

I understand the concept of multiplication and division of fractions.

Unit: 5, 6, and 10

Mathematics - Grade 5  
NUMBER SENSE

## NS 2.5

I can multiply and divide fractions and solve word problems using the appropriate procedure.

Units: 5, 6, and 8

Mathematics - Grade 5  
Algebra and Functions

## AF 1.1

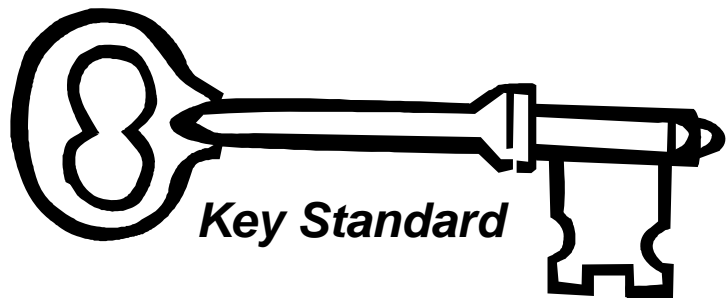
I can use information taken from a graph or equation to answer questions about a problem situation.

Units: 1, 2, 7, 10, and 12

Mathematics - Grade 5  
Algebra and Functions

## AF 1.2

I can use a letter to represent an unknown number to write and prove problems with one variable.



Units: 1, 3, 4, 6, 7, 8, 9, 10, and 12

Mathematics - Grade 5  
Algebra and Functions

## AF 1.3

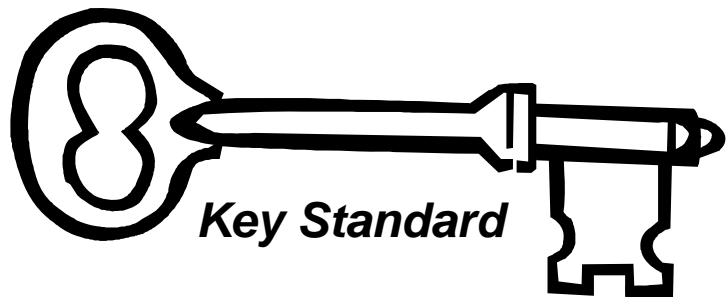
I know how to use the distributive property to solve equations with variables.

Units: 3 and 6

Mathematics - Grade 5  
Algebra and Functions

# AF 1.4

I can identify and graph ordered pairs in the four quadrants of the coordinate plane.

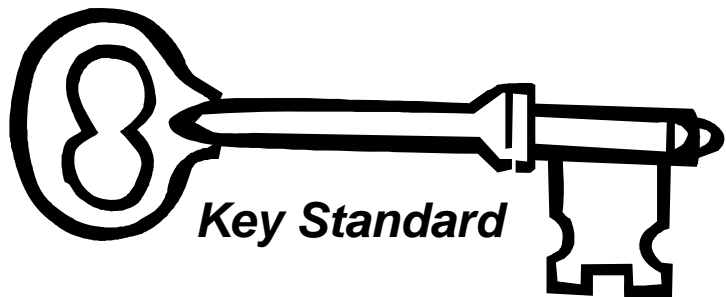


Units: 7 and 12

Mathematics - Grade 5  
Algebra and Functions

## AF 1.5

- I can solve and write linear function equations with positive and negative numbers (integers).
- I can graph the ordered pairs on a grid.

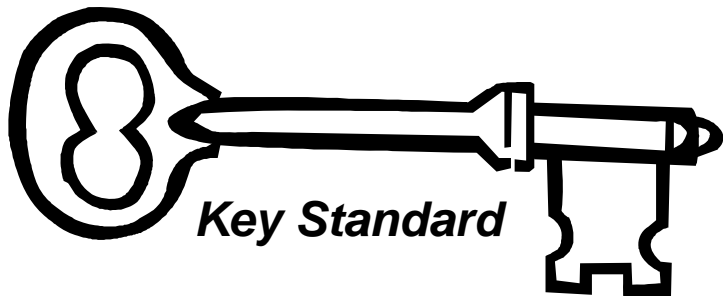


Units: 1, 3, 4, 5, 6, 7, 11, and 12

Mathematics - Grade 5  
Measurement and Geometry

## MG 1.1

I can understand and use the formula for the area of a triangle and of a parallelogram by comparing it with the formula for the area of a rectangle.

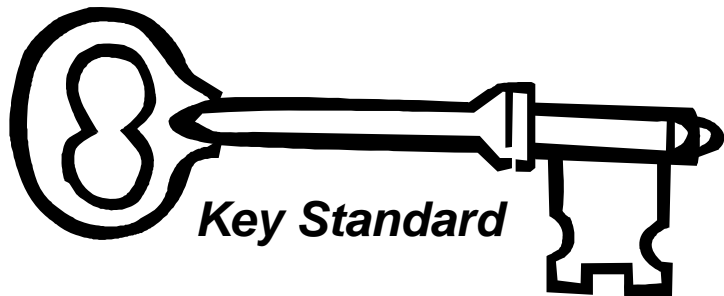


Unit: 9

Mathematics - Grade 5  
Measurement and Geometry

## MG 1.2

- I can build a cube and a rectangular box from two-dimensional patterns.
- I can use these patterns to solve the surface areas for these objects.

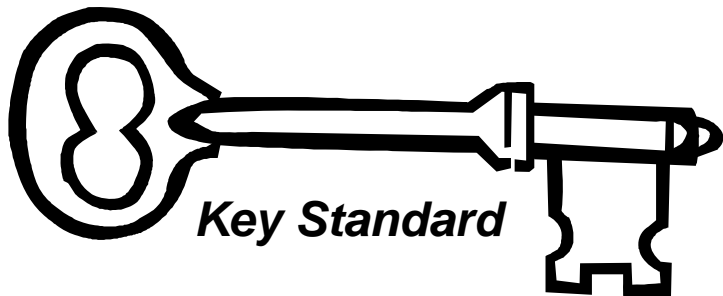


Unit: 9

Mathematics - Grade 5  
Measurement and Geometry

## MG 1.3

- I can understand what volume means, and can find the volume of rectangular solids.
- I can write the answer using measuring system notations like  $\text{cm}^3$  (cubic centimeter) and  $\text{m}^3$  (cubic meter).



Unit: 9

Mathematics - Grade 5  
Measurement and Geometry

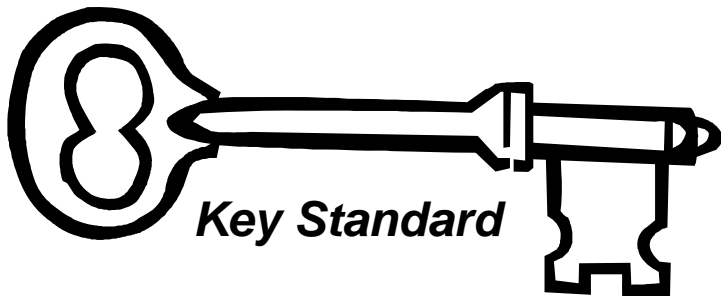
## MG 1.4

I know the difference between two and three dimensional objects and can measure them with appropriate units.

Mathematics - Grade 5  
Measurement and Geometry

## MG 2.1

I can measure, identify and draw angles, perpendicular and parallel lines, rectangles and triangles by using appropriate tools.

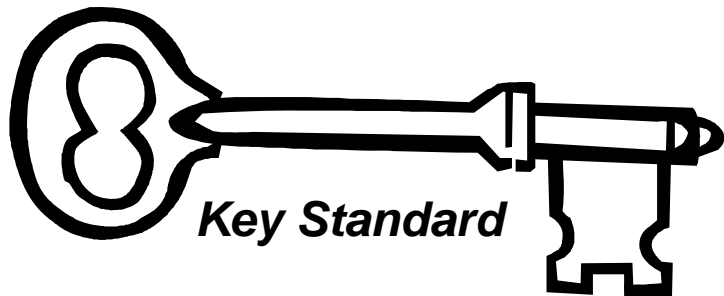


Units: 8 and 10

Mathematics - Grade 5  
Measurement and Geometry

## MG 2.2

I know the sum of the angles of any triangles is  $180^\circ$  and the sum of the angles of any quadrilateral is  $360^\circ$ .



Unit: 8

Mathematics - Grade 5  
Measurement and Geometry

## MG 2.3

I can draw two-dimensional views of three-dimensional objects made from rectangular solids.

Mathematics - Grade 5  
Statistics, Data Analysis and Probability

## SDAP 1.1

- I know the meaning of mean, median and mode.
- I can compute and compare examples to show how they are different.

Units: 7

Mathematics - Grade 5  
Statistics, Data Analysis and Probability

## SDAP 1.2

- I can organize and display data in appropriate graphs. (histogram, circle graph)
- I can explain which types of graphs are appropriate for different data sets.

Units: 7

Mathematics - Grade 5  
Statistics, Data Analysis and Probability

## SDAP 1.3

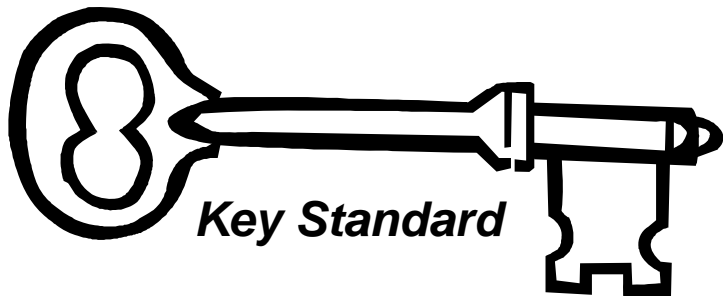
I can use fractions and percents to compare data.

Units: 1

Mathematics - Grade 5  
Statistics, Data Analysis and Probability

## SDAP 1.4

I can find ordered pairs of data on a graph and explain the meaning of the data shown on the graph.

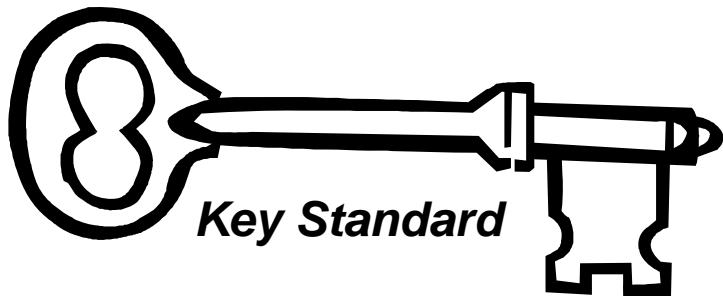


Units: 7, 10 and 12

Mathematics - Grade 5  
Statistics, Data Analysis and Probability

## SDAP 1.5

I know how to write ordered pairs correctly; for example,  $(x, y)$ .



Units: 3, 7, 10 and 12

Mathematics - Grade 5  
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 5  
Mathematical Reasoning

## MR 1.2

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

\* Embedded across all strands

Mathematics - Grade 5  
Mathematical Reasoning

## MR 2.1

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

\* Embedded across all strands

Mathematics - Grade 5  
Mathematical Reasoning

## MR 2.2

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

\* Embedded across all strands

Mathematics - Grade 5  
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 5  
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 5  
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 5  
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 5  
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 5  
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 5  
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