

# I CAN DO STANDARDS!

Fourth Grade- Mathematics



**\*Power Standards** are identified in **BOLD**, large font

## Whole Numbers

- 1.1 I can read and write whole numbers in the millions.\***
- 1.2 I can order and compare whole numbers and decimals to two decimal places.\***
- 1.3 I can round whole numbers to the nearest ten, hundred, thousand, ten thousand or hundred thousand.\***
- 1.4 I can decide when a rounded solution is called for and explain why such a solution may be appropriate.
- 1.8 I can use negative numbers to count, make a number line, and explain which are greater and less than.\***
- 3.1 I can accurately add and subtract multi-digit numbers.
- 3.2 I can multiply a multi-digit number by a 2-digit number, divide a multi-digit number by a 1-digit number and check my work.\***
- 3.3 I can solve problems involving multiplication of multi-digit numbers by two-digit numbers.
- 3.4 I can accurately divide a multi-digit number by a 1-digit number.
- 4.1 I can factor small numbers.\***
- 4.2 I can explain what a prime number is.

## Decimal Numbers

- 1.1 I can read and write decimal numbers up to the thousandths place.
- 1.2 I can order and compare decimal numbers of tenths and hundredths and place them on a number line.
- 1.6 I can write tenths and hundredths in decimal and fraction notations and know the fractions and decimal equivalents for halves and fourths.\***
- 2.1 I can add and subtract decimal numbers to the hundredths place.
- 2.2 I can round hundredths to tenths or the nearest whole number and decide if the answer is reasonable.

## Fractions

- 1.5 I can explain that a fraction is a number that shows part of a whole or part of a set or a division of a whole number by whole numbers. I can draw and write equivalent fractions.\***
- 1.6 I can write tenths and hundredths in decimal and fraction notations and know the fraction and decimal equivalents for halves and fourths.\***

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- 1.7 I can write the fraction represented by a drawing of parts of a figure; represent a given fraction by using drawings; and relate a fraction to a simple decimal on a number line.\***
- 1.9 I can use a number line to compare the value of fractions, mixed numbers, and decimals relative to each other.\***

## Algebra and Functions

- 1.1 I can use letters, boxes, or other symbols to stand for the variable in simple expressions or equations.
- 1.2 I know how to solve expressions that have parentheses.\***
- 1.3 I can use parentheses in expressions with more than 2 terms and different operations.
- 1.4 I can solve problems using formulas, like area = length x width or  $A = lw$ .
- 1.5 I know that an equation with 2 variables, like  $y = 3x + 5$ , means I will figure out the 2<sup>nd</sup> number after the first number is given.\***
- 2.1 I know that equals added to equals are equal.\***
- 2.2 I know that equals multiplied by equals are equal.\***

## Measurement and Geometry

- 1.1 I can measure the area of rectangular shapes and use appropriate units ( $\text{cm}^2$ ,  $\text{in}^2$ ,  $\text{yard}^2$ ,  $\text{meter}^2$ ,  $\text{km}^2$ ,  $\text{mile}^2$ ).
- 1.2 I can show that rectangles that have the same area can have different perimeters.
- 1.3 I can understand that rectangles that have the same perimeter can have different areas.
- 1.4 I can use formulas to calculate the perimeters and areas of rectangles and use the formulas when the rectangle is part of a more complex figure.\***
- 2.1 I can draw points on a graph that show a linear relationship.
- 2.2 I know that the length of the horizontal line segment equals the difference of the x-coordinates.
- 2.3 I know that the length of the vertical line segment equals the difference of the y-coordinates.
- 3.1 I can identify lines that are parallel and perpendicular.
- 3.2 I can identify the radius and diameter of a circle.
- 3.3 I can identify congruent figures.
- 3.4 I can identify figures that have bilateral and rotational symmetry.
- 3.5 I can state the definitions of a right angle, acute angle, and obtuse angle. I can draw on a circle where to find  $90^\circ$ ,  $180^\circ$ ,  $270^\circ$ , and  $360^\circ$  and match them up with  $1/4$ ,  $1/2$ ,  $3/4$  and a full turns.
- 3.6 I can describe and make models of geometric solids, including making the patterns to build each solid. I can identify the number of faces, edges, and vertices each solid has.

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- 3.7 I can state a definition for each of the kinds of triangles.
- 3.8 I can state a definition for each of the kinds of quadrilaterals.

## **Statistics, Data Analysis, and Probability**

- 1.1 I can make up survey questions to collect data and display it on coordinate graphs, tables, charts and number lines.
- 1.2 I can identify the mode, median and outliers for numerical data sets.
- 1.3 I can answer questions about a one variable or two variable graph.
- 2.1 I can list all possible outcomes for probability problems in an organized way.\***
- 2.2 I can explain and show with numbers the results of probability situations.

## **Mathematical Reasoning**

- 1.1 I can identify when a word problem doesn't have enough information to solve it, or has unimportant information. I can also explain which information in the word problem is the most important.
- 1.2 I can decide when and how to break a problem into simpler parts.
- 2.1 I can use estimation to prove if an answer is reasonable.
- 2.2 I can use strategies from simple problems to help solve more difficult problems.
- 2.3 I can communicate my math thinking in different ways, using models, diagrams, tables, charts, graphs, symbols, numbers, and words.
- 2.4 I can clearly explain and justify my solutions using mathematical vocabulary and symbols, both written and oral.
- 2.5 I know when an exact answer is needed and when it is better to estimate.
- 2.6 I can calculate accurately and check the reasonableness of my answer using information from the original problem.
- 3.1 I can check if my problem solution makes any sense.
- 3.2 I can tell how I came up with my answer and explain how I can solve similar problems.
- 3.3 I can develop generalizations of the results obtained and apply them in other circumstances.\***