

# MATH FOURTH GRADE I CANS

## **Operations and Algebraic Thinking**

**Use the four operations with whole numbers to solve problems**

- 4.OA.1** I can write multiplication equations and create multiplication word problems.
- 4.OA.2** I can multiply and divide word problems to solve for the unknown.
- 4.OA.3** I can solve multistep word problems that involve addition, subtraction, multiplication, and division. I know what to do with remainders.

**Gain familiarity with factors and multiples**

- 4.OA.4** I can identify the numbers 1-100 as prime or composite and list all factors.

**Generate and analyze patterns**

- 4.OA.5** I can generate number and shape patterns, state the rule, and find other relationships among the numbers.

## **Numbers and Operations in Base Ten**

**Generalize place value understanding for multi-digit whole numbers**

- 4.NBT.1** I can identify and compare the place value of digits within a number up to 1,000,000.
- 4.NBT.2** I can write numbers in standard, expanded, and word form and compare whole numbers.
- 4.NBT.3** I can round multi-digit whole numbers and explain my thinking when solving word problems.

**Use place value understanding and properties of operations to perform multi-digit arithmetic**

- 4.NBT.4** I can add and subtract multi-digit whole numbers.
- 4.NBT.5** I can multiply 4 digits by 1 digit and 2 digit by 2 digit numbers using a variety of strategies and methods to explain my thinking.

**4.NBT.6** I can divide whole numbers using a variety of strategies and explain my thinking.

## **Numbers and Operations - Fractions**

**Extend understanding of fraction equivalence and ordering**

- 4.NF.1** I can use models to explain equivalent fractions.
- 4.NF.2** I can compare and order fractions with different numerators and denominators.

**Build fractions from unit fractions by applying and previous understandings of operations on whole numbers extending**

- 4.NF.3a** I can compose and decompose fractions referring to the same whole.
- 4.NF.3b** I can model adding and subtracting fractions with like denominators.
- **4.NF.3c** I can add and subtract mixed numbers with like denominators using a variety of strategies.
- 4.NF.3d** I can solve word problems involving fractions with common denominators using models and equations.
- 4.NF.4a** I can multiply a whole number by a fraction using a model and/or equations.
- **4.NF.4b** I can extend the idea of multiplication as repeated addition to multiply a whole number by a fraction.
- 4.NF.4c** I can solve word problems involving multiplying a whole number by a fraction using models and/or equations.

**Understand decimal notation for fractions, and compare decimal fractions**

- 4.NF.5** I can use decimal squares to express tenths and hundredths and use this technique to add and subtract.
- 4.NF.6** I can use decimal notation with fractions with denominators of 10 or 100 and locate them on a number line.
- 4.NF.7** I can compare decimals to the hundredths place using models and a variety of methods.

## **Measurement and Data**

**Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit**

**4.MD.1** I can convert from larger units to smaller units in the customary and metric systems of measurement.

**4.MD.2** I can use the four operations to solve word problems involving measurement and money using diagrams, number lines, and scales.

**4.MD.3** I can find the area and perimeter using real world situations.

**Represent and interpret data**

**4.MD.4** I can create a line plot using fractional units and use the information to solve problems requiring addition and subtraction with fractions.

**Geometric measurement: understand concepts of angle and measure angles**

**4.MD.5** I can use degrees to measure angles.

**4.MD.6** I can use a protractor to construct and measure angles.

**4.MD.7** I can recognize the sum of the angle parts is equal to the whole angle. I can solve addition and subtraction problems with unknown angles on a diagram.

## **Geometry**

**Draw and identify lines and angles, and classify shapes by properties of their lines and angles**

**4.G.1** I can draw and identify points, lines, line segments, rays, angles, & parallel and perpendicular lines.

**4.G.2** I can classify 2 dimensional figures based on properties of line segments and angles. I can identify right angles.

**4.G.3** I can recognize and draw a line of symmetry within a figure.