Mathematics: Grade 5

Operations and Algebraic Thinking OA

- **1** Evaluate an expression with one set of parentheses. LC.5.OA.A.1
- **2** Write a simple numerical expression that indicates calculations with whole numbers. LC.5.OA.A.2
- **3a** Given 2 patterns involving the same context (e.g., collecting marbles) determine the 1st 5 terms and compare the values. LC.5.OA.B.3b When given a line graph representing two arithmetic patterns, identify the relationship between the two. LC.5.OA.B.3A
- **3c** Generate or select a comparison between two graphs from a similar situation. LC.5.OA.B.3C
- **3d** Using provided table with numerical patterns, form ordered pairs. LC.5.OA.B.3D

Numbers and Operations in Base Ten NBT

- **1** Compare the value of a number when it is represented in different place values of two 3 digit numbers. LC.5.NBT.A.1
- **2** Find the product of a number and a power of 10. LC.5.NBT.A.2
- **3a** Read, write, or select a decimal to the hundredths place. LC.5.NBT.A.3b Read, write or select a decimal to the thousandths place. LC.5.NBT.A.3c Compare two decimals to the thousandths place with a value of less than 1. LC.5.NBT.A.3A
- **4a** Round decimals to the next whole number. LC.5.NBT.A.4A
- **4b** Round decimals to the tenths place. LC.5.NBT.A.4B
- **4c** Round decimals to the hundredths place. LC.5.NBT.A.4C
- **5** Multiply whole numbers with up to 3-digits by numbers with up to 2-digits. LC.5.NBT.B.5
- **6a** Find whole number quotients up to two dividends and two divisors. LC.5.NBT.B.6A
- **6b** Find whole number quotients up to four dividends and two divisors. LC.5.NBT.B.6B
- olve 1 step problems using decimals. LC.5.NBT.B.7

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Number and Operations —Fractions NF	**1a**	**Add and subtract fractions with unlike denominators by replacing fractions with equivalent fractions (identical denominators). LC.5.NF.A.1b Add or subtract fractions with unlike denominators.** LC.5.NF.A.1A
	2	**Solve one-step word problems involving addition and subtraction of fractions with unlike denominators.** LC.5.NF.A.2
	3	**Solve a one-step word problem involving division of whole numbers leading to answers in the form of a fraction or mixed number.** LC.5.NF.B.3
	4	**Multiply a fraction by a whole or mixed number.** LC.5.NF.B.4
	5	**Determine whether the product will increase or decrease based on the multiplier.** LC.5.NF.B.5
	6	**Solve word problems involving multiplication of fractions and mixed numbers.** LC.5.NF.B.6
	7	**Divide unit fractions by whole numbers and whole numbers by unit fractions.** LC.5.NF.B.7
Multiplication and Division MD	**1a**	**Convert measurements of time.** LC.5.MD.A.1A
	1b	**Convert standard measurements of length.** LC.5.MD.A.1B
	1c	**Convert standard measurements of mass.** LC.5.MD.A.1C
	1d	**Solve problems involving conversions of standard measurement units when finding area, volume, time lapse, or mass.** LC.5.MD.A.1D
	2	**Given a data set of fractions with denominators 2, 4, or 8, create a line plot and use the information on the plot to solve problems.** LC.5.MD.B.2
	3	**Select a cube as the measurement unit for the volume.** LC.5.MD.C.3
	4	**Use cubes (blocks or other manipulatives) to create a solid figure and counts the number of cubes to determine its volume.** LC.5.MD.C.4
	5a	**Use filling and multiplication to determine volume. LC.5.MD.C.5b Apply formula to solve one step problems involving volume.** LC.5.MD.C.5A
	5c	**Decompose complex 3-D shapes into simple 3-D shapes to measure volume.** LC.5.MD.C.5C
Geometry G	**1a**	**Locate the x and y axis on a graph.** LC.5.G.A.1A
	1b	**Locate points on a graph.** LC.5.G.A.1B
		Use order pairs to graph given points. LC.5.G.A.1C

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2 **Find coordinate values of points in the context of a situation.** LC.5.G.A.2

3 **Recognize properties of simple plane figures.** LC.5.G.B.3

4 **Distinguish quadrilaterals by their properties.** LC.5.G.B.4