

Fifth Grade Unpacking Document

MP 1 -Essential Standard	MP 2 - Essential Standard	MP 3- Essential Standard
5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	5.NF.A.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result $\frac{2}{5} + \frac{1}{2} = \frac{3}{7}$, by observing that $\frac{3}{7} < \frac{1}{2}$.	5.NF.B.6 Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.
<u>Proficiency Scale</u>	<u>Proficiency Scale</u>	<u>Proficiency Scale</u>
Student-Friendly Version	Student-Friendly Version	Student-Friendly Version
I can add, subtract, multiply, and divide decimals to hundredths.	I can create and solve real-world fraction problems including cases with unlike denominators.	I can solve word problems by multiplying fractions and mixed numbers.
Critical Vocabulary	Critical Vocabulary	Critical Vocabulary
decimal, tenths, hundredths, addend, sum, difference, factor, product, quotient, >, =, <	Numerator, denominator, mixed number, unlike denominator, benchmark fractions, reasonableness, estimate, equivalent	improper fraction, mixed number, equivalent fraction, benchmark fraction, simplest form, reasonableness, visual fraction model, equation
Learning Targets	Learning Targets	Learning Targets

I can represent the four basic operations of decimals using base ten models and number lines. I can explain place value in addition and subtraction of decimals. I can use the four operations with decimals to hundredths. I can use a decimal place strategy and explain my reasoning.	I can understand the approximate size of a fraction when compared to benchmarks 0, $\frac{1}{2}$ and 1 I can compute sums of fractions with like denominators I can compute differences of fractions with like denominators I can find equivalent fractions using models and procedures I can identify the operation(s) to utilize within the word problem I can demonstrate a visual fraction model, esp. number lines, tape diagram, area model	I can solve word problems using a tape diagram to multiply fractions and mixed numbers. I can solve word problems using a number line to multiply fractions and mixed numbers. I can solve word problems using an area model to multiply fractions and mixed numbers. I can solve word problems using an equation to multiply fractions and mixed numbers.
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Major standard	Major standard	Major standard
5.NBT.A.3 Read, write, and compare decimals to thousandths. 5.NBT.A.3a Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$. 5.NBT.A.3b	5.NF.A.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. <i>For example, $2/3 + 5/4 = 8/12 + 15/12 = 23/12$. (In general, $a/b + c/d = (ad + bc)/bd$.)</i>	5.NF.B.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.1 5.NF.B.7.a Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. <i>For example, create a story context for $(1/3) \div 4$, and use a visual</i>

Compare two decimals to thousandths based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.		<i>fraction model to show the quotient. Use the relationship between multiplication and division to explain that $(1/3) \div 4 = 1/12$ because $(1/12) \times 4 = 1/3$.</i> 5.NF.B.7.b Interpret division of a whole number by a unit fraction, and compute such quotients. <i>For example, create a story context for $4 \div (1/5)$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $4 \div (1/5) = 20$ because $20 \times (1/5) = 4$.</i> 5.NF.B.7.c Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. <i>For example, how much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $1/3$-cup servings are in 2 cups of raisins?</i>
<u>Proficiency Scale</u>	<u>Proficiency Scale</u>	<u>Proficiency Scale</u>
Student-Friendly Version	Student-Friendly Version	Student-Friendly Version
I can read, write, and compare decimals to the thousandths.	I can add and subtract fractions with unlike denominators, including mixed numbers.	I can divide unit fractions by whole numbers and whole numbers by unit fractions.
Critical Vocabulary	Critical Vocabulary	Critical Vocabulary

base-ten numerals, number names, expanded form, tenths, hundredths, thousandths, $>$, $=$, $<$	fraction, mixed number, equivalent fraction, numerator, denominator, benchmark fractions, reasonableness	unit fraction, whole number, reciprocal, area model
Learning Targets	Learning Targets	Learning Targets
I can read, write, and compare decimals using base-ten numerals. I can read, write, and compare decimals using number names. I can read, write, and compare decimals using expanded form. I can compare two decimals to thousandths based on the value of the digits in each place, using the symbols $>$, $<$, and $=$ to record the results.	I can generate equivalent fractions with common denominators. I can represent addition and subtraction of fractions and mixed numbers using models (fraction strips, number lines, drawings). I can connect representations of addition and subtraction of fractions and mixed numbers using models (fractions strips, number lines, drawings) to equations. I can add and subtract fractions and mixed numbers using equations.	I can divide a unit fraction by a whole number. I can divide a whole number by a unit fraction. I can display whole numbers and unit fractions using visual models and equations. I can solve word problems using division of a unit fraction by a whole number and a whole number by a unit fraction.