



## **Corrective Mathematics**

Common Core State Standards	Lesson Reference
for Grade 5	
Operations and Algebraic Thinking 5.0A	
Write and interpret numerical expressions.	
	Fractions-Decimals-Percents,
these symbols.	<b>TPB:</b> (Lesson.Exercise) 1.1, 2.1, 3.1
5.OA.2. Write simple expressions that record calculations with numbers, and interpret numerical	

expressions without evaluating them. For example, express the calcul

<b>ENPT 2 b</b> Compare two desimple to the upped the based on meanings of the digits in each place	33.3, 33.4, 34.4-6, 35.3-6, 36.3-6, 37.3-8, 38.3-5, 39.3, 39.4, 40.3, 40.4, 41.2, 41.2, 42.2, 43.2 <b>Fractions-Decimals-Percents, WB:</b> (Lesson.Exercise) 32.4, 33.3, 34.4, 34.5, 36.3, 35.4, 36.3-5, 37.3-5, 38.3, 38.4, 39.3, 39.4, 40.3, 40.4, 41.2, 41.3, 42.2, 43.3
<b>5.NBT.3.b.</b> Compare two decimals to thousandths based on meanings of the digits in each placusing >, =, and < symbols to record the results of comparisons.	е,
<b>5.NBT.4.</b> Use place value understanding to round decimals to any place.	
Perform operations with multi-digit whole numbers and with decimals to hundredths.	
5.NBT. 5. Fluently multiply multi-digit whole numbers using the standard algorithm.	Multiplication, TPB:
	(Lesson.Exercise) 16.5, 17.6, 17.7,
	18.5, 19.5, 20.6, 21.6, 22.6, 23.3,
	24.6, 25.6, 26.6, 27.5, 28.7, 29.7,
	30.3, 31.3, 31.4, 31.5, 31.8, 32.3,
	32.4, 33.6, 34.7, 35.4, 35.6, 36.6,
	37.6, 38.5, 39.6, 39.7, 40.6, 41.7,
	42.3, 43.4, 44.7, 45.5, 46.6, 47.6,
	48.5, 49.5, 51.6, 52.6, 53.5, 54.6,
	54.7, 54.8, 55.6, 55.7, 56.6, 57.6
	Multiplication, WB:
	(Lesson.Exercise) 16.4, 17.5, 17.6,
	18.5, 19.5, 20.6, 21.6, 22.6, 23.3,
	24.6, 25.6, 26.6, 27.5, 28.7, 29.6,
	30.3, 31.3, 31.4, 31.5, 31.7, 32.3,
	32.4, 33.6, 34.7, 35.4, 35.6, 36.6,
	37.6, 38.5, 39.6, 39.7, 40.6, 41.7,
	42.3, 43.4, 44.7, 45.5, 46.6, 47.6,
	48.5, 49.5, 51.6, 52.6, 53.5, 54.6,

	54.7, 54.8, 55.6, 55.7, 56.6, 57.6,
	58.4, 58.5, 59.5, 59.6, 60.5, 60.6,
	61.4, 61.5, 62.4, 62.5, 63.4, 64.4,
	65.3, 65.4
<b>5.NBT.6.</b> Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit dividends and two-digit	Division, TPB: (Lesson.Exercise)
divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations,	6.3-6, 7.2-5, 8.2-4, 9.2-6, 10.3-6,
rectangular arrays, and/or area models.	11.1-7, 12.1-7, 13.1-3, 14.3-5, 15.3-
	5, 16.3, 16.4, 17.5-7, 18.5, 19.3,
	20.3, 21.5, 21.6, 22.5, 22.6, 23.4-6,
	24.4-6, 25.4, 25.5, 26.4, 27.5, 28.4,
	29.5, 30.6, 30.7, 31.5, 32.3, 32.4,
	33.6, 34.7, 35.4, 35.5, 36.4-6, 37.6,
	37.7, 38.4, 38.5, 39.3, 39.5, 39.7,
	39.8, 40.6-9, 41.6-8, 42.4, 42.5, 43.4,
	43.6, 44.5, 44.6, 45.6, 45.7, 46.6,
	47.6, 47.7, 50.3, 50.6, 51.6, 52.4,
	53.3, 54.4, 54.6, 55.6, 56.4
	Division, WB: (Lesson.Exercise)
	6.3, 6.4, 7.2, 7.3, 8.2, 9.2-4, 10.3-5,
	11.1-5, 12.1-5, 13.1, 14.3, 15.3, 15.4,
	16.2, 16.3, 17.4, 17.5, 18.4, 19.2,
	20.2, 21.3, 22.3, 23.3-5, 24.2-4, 25.2,
	5.3, 26.3, 27.4, 28.4, 29.4, 30.5, 30.6,
	31.3, 32.3, 32.4, 33.5, 34.6, 35.3,
	35.4, 36.3, 36.5, 37.5, 38.3, 39.2,
	39.3, 39.5, 40.5-7, 41.5-7, 52.3, 42.4,
	43.3, 43.5, 44.4, 44.5, 45.5, 45.6,
	46.5, 47.5, 47.6, 50.2, 50.5, 51.5,
	52.3, 53.3, 54.3, 54.5, 55.5, 56.3,
	57.6, 58.5, 59.3, 60.3, 61.3, 62.3,
	63.2, 64.3, 65.2

**5.NBT.7.** Add, subtract, multiply, and divide decimals to hundredths, using concrete models or

	<b>Fractions-Decimals-Percents, WB:</b> (Lesson.Exercise) 2.2, 6.3, 6.4, 7.3, 8.3, 8.4, 9.3, 10.3, 11.1, 11.3, 11.4, 12.1, 13.1, 14.1, 15.2, 16.2, 17.3, 18.4, 19.3, 20.3, 21.3, 22.4, 23.3, 26.3, 27.3, 28.3, 29.3, 30.3, 31.3, 33.2, 35.1, 36.1, 38.1, 40.1
<b>5.NF.2.</b> 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. <i>For example, recognize an incorrect result</i> $2/5 + \frac{1}{2} = \frac{3}{7}$ , <i>by observing that</i> $\frac{3}{7} < \frac{1}{2}$ .	
<ul> <li>Apply and extend previous understandings of multiplication and division to multiply and divide fr</li> <li>5.NF.3. Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b).</li> <li>Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?</li> <li>5.NF.4. Apply and extend previous understandings of multiplication to multiply a fraction or whole</li> </ul>	actions.
<b>5.NF.4.</b> Apply and extend previous understandings of multiplication to multiply a fraction of whole number by a fraction. <b>5.NF.4a.</b> Interpret the product $(a/b) \times q$ as a parts of a partition of $q$ into $b$ equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$ . For example, use a visual fraction model to show (2/3) $\times 4 = 8/3$ , and create a story context for this equation. Do the same with (2/3) $\times (4/5) = 8/15$ . (In general, $(a/b) \times (c/d) = ac/bd$ ).	Basic Fractions, TPB: (Lesson.Exercise) 23.3, 24.3, 25.2, 26.3, 27.2, 28.3, 29.4, 30.2, 30.3, 31.1, 32.1, 33.1, 34.1, 34.3, 35.1, 35.3, 36.1, 37.2, 38.2, 39.5, 40.3, 41.3, 42.2, 43.3, 44.4, 45.5, 46.5, 47.3, 48.1, 49.4, 50.5, 51.2, 52.3, 53.2, 54.2, 55.2 Basic Fractions, WB:
	(Lesson.Exercise) 23.5, 24.3, 25.3, 26.5, 27.4, 28.3, 29.4, 30.2, 30.3,

	31.1, 32.1, 33.1, 34.1, 34.3, 35.1,
	35.3, 36.1, 37.1, 38.1, 39.2, 40.1,
	41.2, 42.2, 43.2, 44.3, 45.2, 46.4,
	47.2, 48.1, 49.3, 50.4, 51.2, 52.3,
	53.2, 54.2, 55.2
	Fractions-Decimals-Percents,
	<b>TPB:</b> (Lesson.Exercise) 1.6, 2.4, 6.6,
	8.4, 12.5, 15.4, 16.3, 17.3, 18.4, 19.3,
	20.5, 21.5, 22.5, 23.4, 26.4, 30.3,
	35.1, 38.1, 40.1
	Fractions-Decimals-Percents, WB:
	(Lesson.Exercise) 1.3, 2.2, 6.4, 8.4,
	12.4, 15.2, 16.2, 17.3, 18.4, 19.3,
	20.3, 21.3, 22.4, 23.3, 26.3, 30.3,
	35.1, 38.1, 40.1
<b>5.NF.4b.</b> Find the area of a rectangle with fractional side lengths by tiling it with unit squares of appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent	· · ·
fraction products as rectangular areas.	

55.2
Fractions-Decimals-Percents, TPB: (Lesson.Exercise) 1.6, 6.6, 8.4, 12.5, 15.4, 16.3, 17.4, 18.4, 20.5, 21.5, 22.5, 23.4, 26.4, 30.3, 35.1 Fractions-Decimals-Percents, WB: (Lesson.Exercise) 1.3, 6.4, 8.4, 12.4, 15.2, 16.2, 17.3, 18.4, 20.3, 21.3, 22.4, 23.3, 26.3, 30.3, 35.1
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5.MD.3.