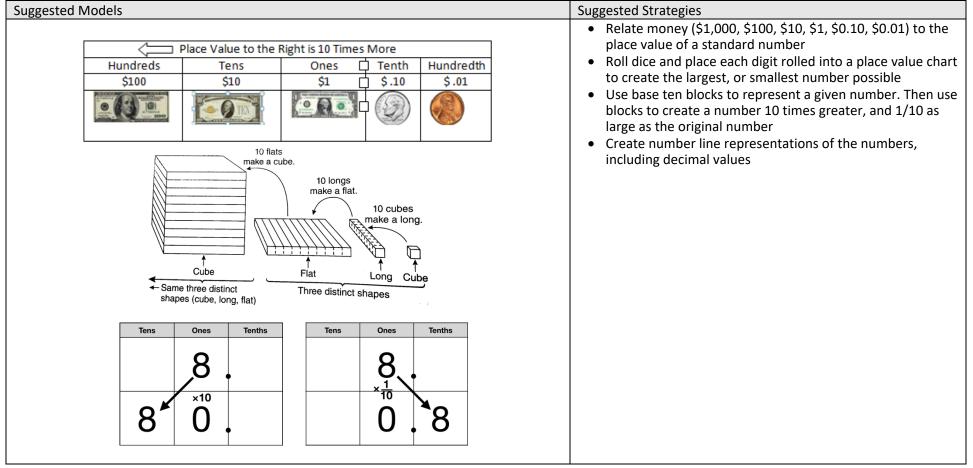
Number and Operations in Base Ten	Core Guide	Grade 5
Understand the place value system (Standards 5.NI	BT.1-4)	
Standard 5.NBT.1 Recognize that in a multi-digit nu	umber, a digit in one place represents 10 times as much as it repr	esents in the place to its right and 1/10 of
what it represents in the place to its left.		
Concepts and Skills to Master		
• Know the names and positions of each place val	lue	
• Understand the value of each digit in the base 1	0 system	
Understand that the value of a digit within a number of a digit within a digit within a number of a digit within a number of	mber increases or decreases when multiplied or divided by ten ir	i the base ten system
Accurately multiply multi-digit numbers by pow		
Accurately divide multi-digit numbers by power		
Model whole numbers and parts of whole numb	pers with drawings, base ten blocks, and other concrete models	
Teacher Note: This is students' first exposure to de	ecimal operations and extends into 5.NBT,2. "Students extend the	eir understanding of the base-ten system
	numbers compare, and how numbers round for decimals to thous	
	should work with the idea that the tens place is ten times as mu	
-	publicschools.org/docs/curriculum/mathematics/scos/5.pdf)	
Related Standards: Current Grade Level		Related Standards: Future Grade Levels
5.NBT.2 Explain patterns in the number of zeros of	the product when multiplying a number by powers of 10, and	6.EE.1 Write and evaluate numerical
	pint when a decimal is multiplied or divided by a power of 10.	expressions involving whole-number
Use whole-number exponents to denote powers of		exponents
5.NBT.3 Read, write, and compare decimals to thou		6.NS.2 Fluently divide multi-digit
5.NBT.4 Use place value understanding to round de		numbers using the standard algorithm
5.NBT.5 Fluently multiply multi-digit whole number		for each operation
	mbers with up to four-digit dividends and two digit divisors	6.NS.3 Fluently add, subtract, multiply,
5.NBT.7 Add, subtract, multiply, and divide decima	easurement units within a given (metric) measurement system	and divide multi-digit decimals using the standard algorithm for each operation
5.WD.1 Convert among unterent-sized standard me	easurement units within a given (metric) measurement system	standard algorithm for each operation
Critical Background Knowledge from Previous Grad	e Levels	
• Recognize that in a multi-digit number, a digit in	one place represents 10 times what it represents in the place val	ue to its right (4.NBT.1)
Multiply one-digit whole numbers by multiples o	f ten (3.NBT.3)	
Academic Vocabulary	a touth hourderstate the construction	
base ten system, decimal, names of the place value	es, tenth, hundredth, thousandth	



Core Guide

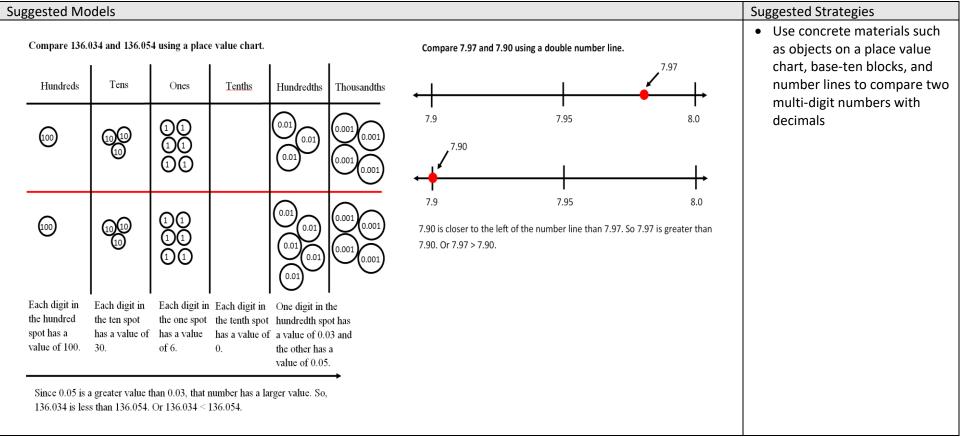
 Standard 5.NBT.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10. Concepts and Skills to Master Understand why multiplying by a power of 10 shifts the digits of a whole number or decimal that many places to the left 		
Concepts and Skills to Master		
 Understand why multiplying by a power of 10 shifts the digits of a whole number or decimal that many places to the left 		
 Understand why dividing by a power of 10 shifts the digits of a whole number or decimal that many places to the right 		
• Understand that when multiplying by powers of 10, the exponent indicates how many places the digits of the number will shift increasing the value 10		
times for every place the digits shift		
 Understand that when dividing by a power of 10, the exponent indicates how many places the digits of the number will shift, decreasing the value of the number by 1/10 for every place the digits shift 		
 Understand that an exponent indicates the number of times a base is multiplied by itself 		
Related Standards: Current Grade Level Related Standards: Future Grade Levels		
5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it 6.EE.1 Write and evaluate numerical expressions		
represents in the place to its right and 1/10 of what it represents in the place to the left involving whole-number exponents		
5.NBT.5 Fluently multiply multi-digit numbers using the standard algorithm		
5.NBT.7 Add, subtract, multiply, and divide decimals to hundredths		
Critical Background Knowledge from Previous Grade Levels		
• Recognize that in a multi-digit number, a digit in one place represents 10 times what it represents in the place value to its right (4.NBT.1)		
Multiply one-digit whole numbers by multiples of ten (3.NBT.3)		
Academic Vocabulary		
base ten, exponential notation (^), product, power of ten, exponent, base		
Suggested Models Suggested Strategies		
 Multiply Numbers by Powers of Ten Display patterns in a number multiplied by powers of ten. Compare the number of zeros in the products in relation to the 		
Tens Ones Tenths Hundredths now or of top factors		
Standard Experiential Examples		
243 Use mental math to divide a dividend by 10, 100, 1000		
10 10^4 $.45 \times 10^4$ = 4.5		
$100 10^2 .45 \times 10^2 = 45$		
• Use base ten blocks to model multiplication of division by a power		
1,000 10^3 $.45 \times 10^3 = 450$ of ten.		
Hundreds Tens Ones Tenths Hundredths Tens Ones Tenths Hundredths Divide Numbers by Powers of Ten		
Standard Exponential Examples		
2 4 3 2 4		
$10 10^1 45 \div 10^1 = 4.5$		
$2 4 3 1 10^{2} 4^{5 \div 10^{2} = .45}$		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		

Standard 5.NBT.3 Read, write, and compare decimals to thousandths.		
a. Read and write decimals to thousandths using base-ten numerals, number na	mes, and expanded form. <i>For example,</i> 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 ×	
(1/10) + 9 × (1/100) + 2 × (1/1000).		
b. Compare two decimals to thousandths based on meanings of the digits in eac	h place, using >, =, and < symbols to record the results of comparisons.	
Concepts and Skills to Master		
 Express a given number in multiple ways: 		
 base-ten numerals (347.392) 		
 number names (three hundred forty-seven and three hundred ninet 		
• expanded form $3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2$		
 Understand that when comparing two numbers, one first looks at the whole Understand that a number (graater than 0) is the teather place always have 		
 Understand that a number (greater than 0) in the tenths place always has a Generalize that the number with the most tenths is greater 	greater value than the number in the hundreaths place	
	e hundredths is greater. If the number of tenths and hundredths is the same,	
the number with more thousandths is greater		
 Use terms including greater than, more than, less than, fewer than, equal to 	p. and same as, to describe comparisons	
 Use the symbols >, =, and < to correctly to compare decimals to thousandt 		
Teacher Note: Students compare numbers and record the comparisons with the		
rather than tricks such as "the alligator eats the bigger number," etc. The inequa		
numbers where one is greater or smaller than the other. The statements are re-		
and eight tenths) A number line can be used to develop the understanding of th		
"inequality" when comparing numbers. $(1.0 \ 1.1 \ 1.2 \ 1.3 \ 1.4 \ 1.5 \ 1.6 \ 1.7 \ 1.8 \ 1.8 \ 1.$		
1.0 1.1 1.2 1.3 1.4 1.3 1.0 1.7 1.0	1.5 2.0	
Related Standards: Current Grade Level	Related Standards: Future Grade Levels	
5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents	6.NS.7 Understand ordering and absolute value of rational numbers.	
10 times as much as it represents in the place to its right and 1/10 of what it	Interpret statements of inequality as statements about the relative position	
represents in the place to its left	of two numbers on a number line diagram.	
5.NBT.4 Use place value understanding to round decimals to any place	6.EE.8 Write an inequality of the form <i>x</i> > <i>c</i> or <i>x</i> < <i>c</i>	
Critical Background Knowledge from Previous Grade Levels		
 Compare two decimals to hundredths by reasoning about their size. Record conclusions (4.NF.7) 		
 Read and write multi-digit whole numbers using base-ten numerals, number meanings of the digits in each place, using >, =, and < symbols to record the 		
Compare two fractions with the same numerator or the same denominator		
Academic Vocabulary		
base-ten numeral (also known as standard form), number names (also known as	s word form), expanded form, compare, more, fewer, greater than (>), less	
than (<), equal to (=), same as		

Number and Operations in Base Ten

Understand the place value system (Standards 5.NBT.1–4)

Standard 5 NBT 3 Read write and compare decimals to thousandths



Understand the place value system (Standards 5.NBT.1–4)

Standard 5.NBT.4 Use place value understanding to round decimals to any place.

Concepts and Skills to Master

- Use place value understanding to round numbers with decimals to the nearest whole number, tenth, and hundredth
- Understand that rounding can be applied to any place within a number including decimals
- Understand when rounding to the nearest whole number, tenths, or hundredths place, the goal is to approximate the closest number with zero units in the places to the right of the digit to be rounded to (For example, 478.235 rounded to the nearest tenth is 478.2; and 478.235 rounded to the nearest hundredth is 478.24)
- Connect rounding numbers to the location of the number on a number line by identifying the benchmark numbers and using the midpoint to determine which benchmark number is closer (For example, when rounding 478.235 to the nearest tenth, the benchmark numbers are 478.2 and 478.3. The midpoint is 478.25. The number 478.235 is to the left of the midpoint and closer to 478.2 than 478.3. The number 478.235 is therefore rounded to 478.2.)

Related Standards: Current Grade Level	Related Standards: Future Grade Levels	
5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much	Fifth grade is the last grade level in which rounding is	
as it represents in the place to its right and 1/10 of what it represents in the place to its left.	specifically addressed. Rounding may be used to support	
5.NBT.3 Read, write, and compare decimals to thousandths.	problem solving in various standards in future grade	
	levels.	

Critical Background Knowledge from Previous Grade Levels

- Use place value understanding to round multi-digit whole numbers to any place up to 1,000,000 (4.NBT.3)
- Use place value understanding to round two-digit and three-digit numbers to the nearest 10 and 100 (3.NBT.1)

Suggested Models	Academic Vocabulary
Example: Round 8.23 to the nearest tenth.	round a decimal, benchmark number, midpoint, digits, estimate, close to, nearest place, ones place, tenths place, hundredths place
Step One:	Suggested Strategies
8.2 8.3	• Create and use horizontal and vertical open number lines to identify, locate, and label benchmark numbers, midpoints, and target numbers to assist in rounding
Step Two: + + + + + + + + + + + + + + + + + + +	 Use base-ten blocks, decimal bars, and drawings to model the concept of rounding with decimals Use a place value chart and/or place value disks as a tool for support when rounding
Step Three:	 Use pennies, dimes, and dollars to model rounding
Step Four:	
+ + + + + + + + + + + + + + + + + + +	

Core Guide

Grade 5

Perform operations with multi-digit whole numbers and with decimals to hundredths (Standards 5.NBT.5–7).

Standard 5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm.

Concepts and Skills to Master

- Extend understanding of multiplication with specified multi-digit numbers to multiply with any multi-digit whole numbers
- Fluently compute products of whole numbers using a variety of strategies including the standard algorithm
- Use properties of operation and place value to explain a standard algorithm
- Understand and explain connections between various multiplication strategies and a standard algorithm

Teacher Note: A standard algorithm of multiplication is neither an expectation nor a focus in fourth grade. Students use multiple strategies for multiplication in grades 3-5. By the end of fourth grade students use a range of algorithms based on place value, properties of operations, and/or the relationships between addition and multiplication to multiply multi-digit whole numbers. Students are expected to fluently multiply multi-digit whole numbers using a standard algorithm by the end of fifth grade. Fifth grade students should not only focus on the standard algorithm, but should progress from strategies used in fourth grade to a standard algorithm.

Related Standards: Current Grade Level	Related Standards: Future Grade Levels
 5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left. 5.NBT.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10 5.NBT.7 Multiply decimals to hundredths, using concrete models or drawings and strategies based on place value 5.NF.4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction (using area models and partial products) 5.MD.5 Relate volume to the operations of multiplication 	6.NS.3 Fluently multiply multi-digit decimals using the standard algorithm 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers

Critical Background Knowledge from Previous Grade Levels

• Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models (4.NBT.5)

- Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities (3.OA.3)
- Apply properties of operations as strategies to multiply and divide (3.OA.5)
- Multiply one-digit whole numbers by multiples of 10 in the range 10–90, for example, 9 × 80 and 5 × 60 (3.NBT.3)

Academic Vocabulary

multiply, factor, product, factor pairs, multiples, distributive property, area model, partial products, algorithm

uggested ModelsMethods that compute partial products firstShowing the partial productsRecording the carries below for correct place value placement9494 $\times 36$ 94 24 6×4 540 6×9 tens 120 $3 \text{ tens } \times 4$ 2700 $3 \text{ tens } \times 9$ 3384 720 3384 384 3384 384 3384 384 99 3384 3384 $9 \text{ tens } 160 \text{ terms}$ $30 \times 90 = 2700$ is placed correctly in the hundreds place and the digit 2 from $30 \times 90 = 2700$ is placed correctly in the thousands place. If these digits had been placed above 94, they would be in incorrect places. Note that the 0 (surrounded by a yellow box) in the ones place of the second row of the method on the right is there because the whole row of digits is produced by multiplying by 30 (not 3). Colors on the left correspond with the area model above.	Suggested Strategies Teacher Note: This standard refers to fluency which means accuracy (correfficiency (a reasonable amount of steps), and flexibility (using strategies accords the numbers in the problem. This standard builds upon students' work with numbers in third and fourth grade. In fourth grade, students developed un of multiplication through using various strategies. While the standard algomentioned, alternative strategies are also appropriate to help students deconceptual understanding. • Area models • Partial products • Standard algorithm • Compare different models to show how place value is utilized the same product	such as the ording to th multiplying nderstanding orithm is evelop

Images Source: http://commoncoretools.me/wp-content/uploads/2015/03/ccss_progression_nbp_k5_2015_03_16.pdf

Number and Operations in Base Ten

Core Guide

Perform operations with multi-digit whole numbers and with decimals to hundredths (Standards 5.NBT.5–7).

Standard 5.NBT.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two- digit 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, rectangular arrays, and/or area models.

Concepts and Skills to Master

- Extend understanding of division with one-digit divisors to divide numbers by two-digit divisors
- Understand how to compute quotients of two-digit divisors and two, three, and four-digit dividends
- Understand how to compute quotients in a variety of situations, including with zeros in various places
- Interpret whole-number quotients of whole numbers with and without remainders from partitive and quotative contexts (Partitive: interpret 560 ÷ 80 as the number of objects in each share when 560 objects are partitioned equally into 80 shares; Quotative: interpret 560 ÷ 80 as a number of shares when 560 objects are partitioned into equal shares of 80 objects each)
- Connect physical representations (objects) to visual representations (drawings)
- Connect physical and visual representations to equations
- Use a variety of strategies to find quotients between the following numbers with and without remainders:
 - two-digit divisors and two-digit dividends
 - $\circ\;\;$ two-digit divisors and three-digit dividends
 - $\circ\;$ two-digit divisors and four-digit dividends

Teacher Note: The standard algorithm of division is neither an expectation nor a focus in fifth grade. Students use multiple strategies for division in grades 3-5. In fourth and fifth grade students use a range of algorithms based on place value, properties of operations, and/or the relationships between subtraction and division to divide multi-digit whole numbers. Students are expected to fluently divide multi-digit whole numbers using the standard algorithm by the end of sixth grade.

Related Standards: Current Grade Level	Related Standards: Future Grade Levels
 5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left. 5.NBT.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10 5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm. 5.NBT.7 Multiply decimals to hundredths, using concrete models or drawings and strategies based on place value 	 6.NS.2 Fluently divide multi-digit numbers using the standard algorithm 6.NS.3 Fluently divide multi-digit decimals using the standard algorithm 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers
Critical Background Knowledge from Previous Grade Levels	
 Find whole-number quotients and remainders with up to four-digit dividends and one-digit di of operations, and/or the relationship between multiplication and division. Illustrate and expl and/or area models (4.NBT.6) Use multiplication and division within 100 to solve word problems in situations involving equations 	ain the calculation by using equations, rectangular arrays,

• Apply properties of operations as strategies to multiply and divide (3.OA.5)

Academic Vocabulary

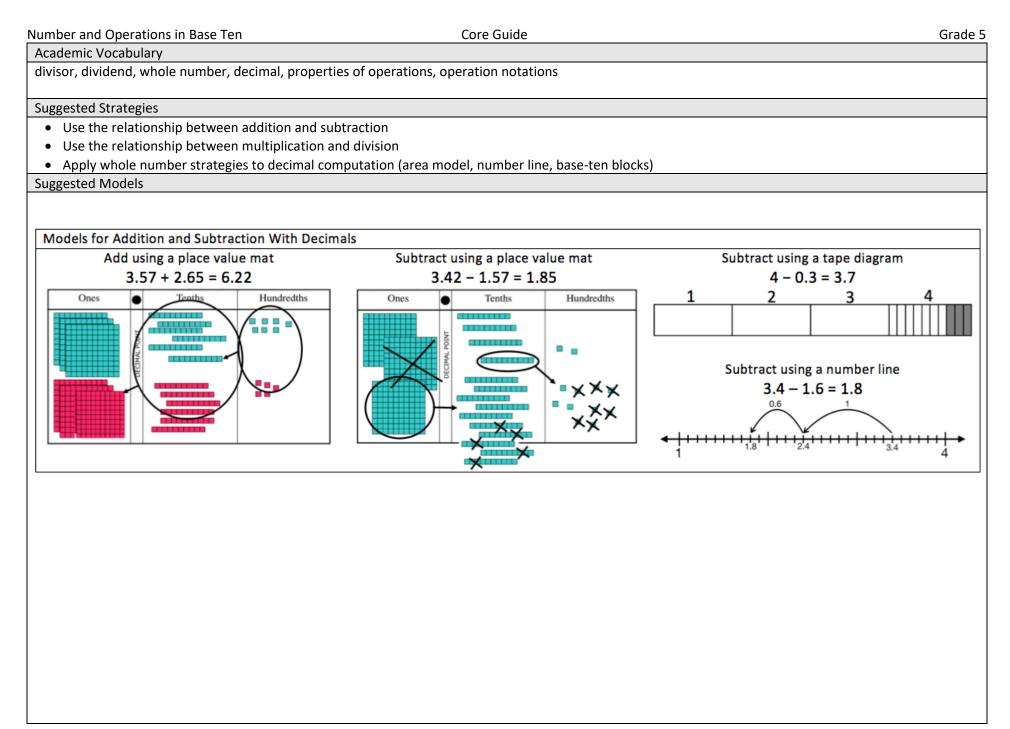
dividend, divisor, quotient, partial quotients, remainder, place value

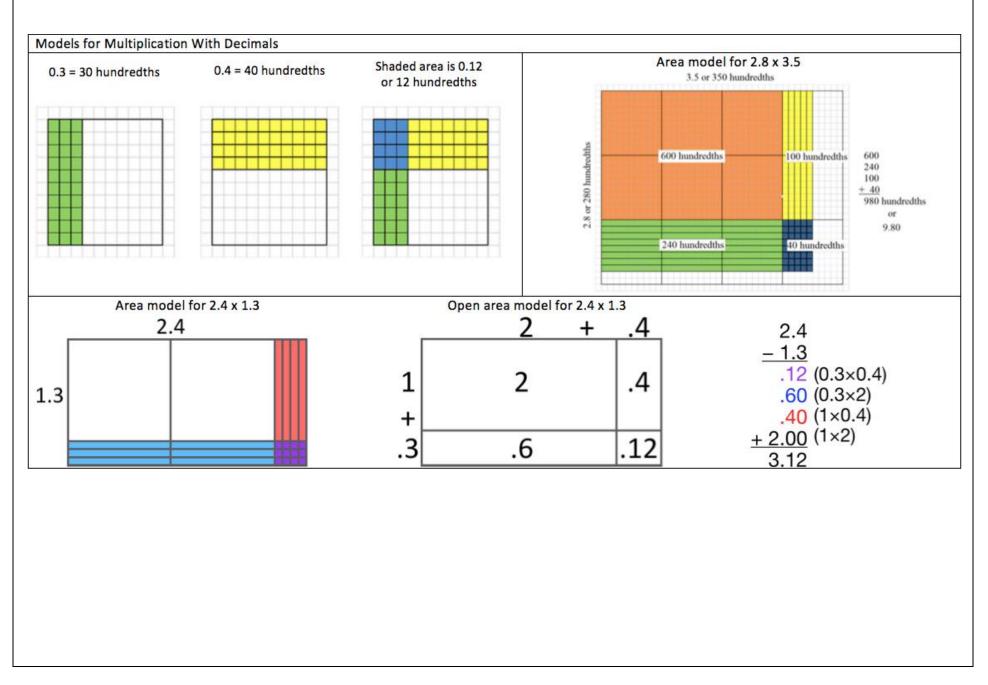
Suggested Models		Suggested Strategies
	n Field Day. They are put into teams of 16 for the competition. How ft over students, what do you do with them? Student 2 1,716 divided by 16. There are 100 16's in 1,716. Ten groups of 16 is 160. That's too big. Half of that is 80, which is 5 groups. Unow that 2 groups of 16's is 32	 Use the relationship between multiplication and division Use repeated subtraction and sharing as division strategies Use manipulatives such as base-ten blocks or place-value discs and drawings such as equal groups, arrays, and area models to represent division
I to $-96 = 20$ I can take out at least 1 more 16. 20 - 16 = 4 There were 107 teams with 4 students left over. If we put the extra students on different team, 4 teams will have 17 students.	I know that 2 groups of 16's is 32. -80 5 I have 4 students left over. 36 -32 -32 2 4	 Use partial quotients and place value sections to model and visualize division Explain connections between physical models, visual models, and equations
Student 3 $1,716 \div 16 =$ I want to get to 1,716 I know that 100 16's equals 1,600 I know that 5 16's equals 80 1,600 + 80 = 1,680 Two more groups of 16's equals 32, which	Student 4 How many 16's are in 1,716? We have an area of 1,716. I know that one side of my array is 16 units long. I used 16 as the height. I am trying to answer the question what is the width of my rectangle if the area is 1,716 and the height is 16. 100 + 7 = 107 R 4	
gets us to 1,712 I am 4 away from 1,716 So we had $100 + 6 + 1 = 107$ teams Those other 4 students can just hang out	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	

Number and Operations in Base Ten

Core Guide Perform operations with multi-digit whole numbers and with decimals to hundredths (Standards 5.NBT.5–7). Standard 5.NBT.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. In this standard, dividing decimals is limited to a whole number dividend with a decimal divisor or a decimal dividend with a whole number divisor. Compare the value of the quotient on the basis of the values of the dividend and divisor. Concepts and Skills to Master Use previous understandings for adding and subtracting whole numbers to adding and subtracting decimals to hundredths ٠ Understand that a whole number can be written with a decimal point followed by one or more zeros • Understand that when adding or subtracting decimals, units must be aligned with the corresponding places correctly (hundredths are aligned with hundredths; tenths are aligned with tenths; ones are aligned with ones, etc.) Use previous understandings for multiplying whole numbers to multiplying decimals to hundredths ٠ Explain why when multiplying by 0.1 or by 0.01 the product is 10 or 100 times as small as the multiplicand (the digits shift one or two places to the right of the decimal point) Use a variety of methods to reason about the placement of a decimal point in the product of two decimals • Use previous understandings for dividing whole numbers to dividing decimals to hundredths Explain why when dividing by 0.1 or by 0.01 the quotient becomes 10 times or 100 times as large as the dividend (the digits shift one or two places to the left of the decimal point) Understand that when the decimal point in the divisor is shifted to make a whole number, the decimal point in the dividend should shift the same • number of places Apply a variety of strategies based on place value to add, subtract, multiply, and divide decimals • Teacher Note: Students are not required to multiply hundredths by hundredths. Expectations for division of decimals is limited to a whole number dividend with a decimal divisor or a decimal dividend with a whole number divisor. Fifth grade students are not required to compute decimal dividends by decimal divisors.

Related Standards: Current Grade Level	Related Standards: Future Grade Levels	
5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents	6.NS.3 Fluently add, subtract, multiply,	
in the place to its right and 1/10 of what it represents in the place to its left.	and divide multi-digit decimals using the	
5.NBT.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and	standard algorithm for each operation.	
explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.	7.NS.3 Solve real-world and	
5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm.	mathematical problems involving the	
5.NBT.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.	four operations with rational numbers.	
5.MD.1 Convert among different-sized standard measurement units within a given measurement system.		
5.NF.4, 5.NF.6 Multiply a fraction by a fraction		
5.NF.3, 5.NF.7 Divide with fractions		
Critical Background Knowledge from Previous Grade Levels		
Fluently multiply and divide within 100 (3.OA.7)		
 Fluently add and subtract multi-digit whole numbers using the standard algorithm (4.NBT.4) 		
 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers (4.NBT.5) 		
 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors (4.NBT.6) 		





Models for Division	with Decimals		
0.30 ÷ 6 = 0.05		Finding the number of groups	
1 2 3	0.30 is shaded. The student numbered each of the	$2 \div 0.4 = 5$	
4 5 6	hundredths 1 through 6 to represent 6 groups. The		
1 2 3 4 5 6	student then circled the number 1 to show the number		
1 2 3	of hundredths in each group.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 5 6		Students could draw a segment to	represent 2.0 meters and
1 2 3		partition into tenths. They may the	
4 5 6		determining that there are 5 group	-
1 2 3			
4 5 6			
Hundred Grid to Mo	del all Operations		
A relay race lasts 4.6	55 miles. The relay team has 3 runners. If each runner goes the	same distance, how far does each	Possible solution equations:
eam member run?	Make an estimate, find your actual answer, and then compare t	them.	4.65 ÷ 3 = 1.55 miles
			3 x 1.55 = 4.65 miles
			1.55 + 1.55 + 1.55 = 4.65 miles
			4.65 – 1.55 – 1.55 = 1.55 miles
My estimate is that	each runner runs between 1 and 2 miles. If each runner went 2	miles, that would be a total of 6	
niles which is too h	igh. If each runner ran 1 mile, that would be 3 miles, which is to	o low. I used the 5 grids above to	
epresent the 4.65 r	niles. I am going to use all of the first 4 grids and 65 of the squa	res in the 5th grid. I have to divide	
he 4 whole grids ar	d the 65 squares into 3 equal groups. I labeled each of the first	3 grids for each runner, so I know	
hat each team men	nber ran at least 1 mile. I then have 1 whole grid and 65 squares	s to divide up. Each column	
	h. If I give 5 columns to each runner, that means that each runr	-	
· ·	w, I have 15 squares left to divide up. Each runner gets 5 of tho		
	hundredths of a mile. I can write that as 1.55 miles. My answer	-	
	les. I was pretty close.		
	www.dni.stato.nc.us/docs/curriculum/mathematics/coos/E.adf.		
	www.dpi.state.nc.us/docs/curriculum/mathematics/scos/5.pdf;	an ⁰ /20and ⁰ /20au btraatian ⁰ /20daaira	alcadf
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