correlated to the Common Core State Standards for Mathematics

Standards	Descriptor	Page Citations
	and Algebraic Thinking	1.0A
	nd solve problems involving addition and	
1	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	TB-A: 27–38, 42–50, 70–74 WB-A: 25–32, 34–36, 43–51, 64–66, 101–113, 120, 127, 129–131, 183, 185–186 TB-B: 7–15 WB-B: 13–18, 71, 197–199
2	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	TB-B: 44-45 WB-B: 63-64, 66
	and apply properties of operations and t dition and subtraction.	he relationship
3	Apply properties of operations as strategies to add and subtract. <i>Examples:</i> If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known. (Commutative property of addition.) To add $2 + 6 + 4$, the second two numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$. (Associative property of addition.)	TB-A: 32, 50, 70-74 WB-A: 32-33, 40, 47-48, 53-54, 102-106, 108-113, 116-122 TB-B: 44-45 WB-B: 63-65
4	Understand subtraction as an unknown- addend problem. For example, subtract 10 – 8 by finding the number that makes 10 when added to 8.	TB-A: 24-25, 38, 66 WB-A: 20-24, 107, 110
Add and sub	ptract within 20.	
5	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).	TB-A: 35-37, 51-53, 75 WB-A: 36-39, 57-58, 114-115 TB-B: 46-47

Standards	Descriptor	Page Citations
6	Add and subtract within 20, demonstrating	TB-A: 35-37, 40,
	fluency for addition and subtraction within	50-52, 55, 70-78
	10. Use strategies such as counting on;	WB-A: 36-39, 53-55,
	making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10$	57-58, 81, 101-115,
	+ 4 = 14; decomposing a number leading	120
	to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 10$	120
	1 = 9; using the relationship between	
	addition and subtraction (e.g., knowing	
	that $8 + 4 = 12$, one knows $12 - 8 = 4$;	
	and creating equivalent but easier or	
	known sums (e.g., adding 6 + 7 by	
	creating the known equivalent $6 + 6 + 1 =$	
	12 + 1 = 13).	
7	addition and subtraction equations. Understand the meaning of the equal sign,	TB-A: 27
/	5 1 5 7	
	and determine if equations involving addition and subtraction are true or false.	WB-A: 86, 119
	For example, which of the following	
	equations are true and which are false? 6	
	= 6, 7 = 8 - 1, 5 + 2 = 2 + 5, 4 + 1 =	
8	5 + 2. Determine the unknown whole number in	TB-A: 38, 66
0		-
	an addition or subtraction equation relating	WB-A: 107, 110
	three whole numbers. For example, determine the unknown number that	
	makes the equation true in each of the	
	equations $8 + ? = 11$,	
Numberen	5 = ? - 3, 6 + 6 = ?. d Operations in Base Ten	1.NB
	counting sequence.	1.001
1	Count to 120, starting at any number less	TB-B: 22, 25, 28,
-	than 120. In this range, read and write	85-87, 91-93
	numerals and represent a number of	WB-B: 30, 37–38, 68,
	objects with a written numeral.	134–135, 142, 147–14
	objects with a written nameral.	· · ·
2		(Numbers to 100 only)
2	Understand that the two digits of a two-digit	(Numbers to 100 only) number represent
2	Understand that the two digits of a two-digit amounts of tens and ones. Understand the fe	(Numbers to 100 only) number represent ollowing as special cases
	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62-66
a	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten."	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92
2 a b	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72
a	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six,	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72 WB-A: 89–92, 94–95,
a b	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72 WB-A: 89–92, 94–95, 189–190
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a b	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five,	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72 WB-A: 89–92, 94–95, 189–190 TB-A: 63 TB-B: 22–23, 25, 35,
a b	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72 WB-A: 89–92, 94–95, 189–190 TB-A: 63 TB-B: 22–23, 25, 35, 76–79, 85
a b C	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72 WB-A: 89–92, 94–95, 189–190 TB-A: 63 TB-B: 22–23, 25, 35, 76–79, 85 WB-B: 130–132
a b	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones). Compare two two-digit numbers based on	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72 WB-A: 89–92, 94–95, 189–190 TB-A: 63 TB-B: 22–23, 25, 35, 76–79, 85 WB-B: 130–132 TB-B: 29, 89–90
a b C	Understand that the two digits of a two-digit amounts of tens and ones. Understand the for 10 can be thought of as a bundle of ten ones — called a "ten." The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones). Compare two two-digit numbers based on meanings of the tens and ones digits,	(Numbers to 100 only) number represent ollowing as special cases TB-A: 25, 62–66 WB-A: 23–24, 89–92 TB-A: 62–66, 70–72 WB-A: 89–92, 94–95, 189–190 TB-A: 63 TB-B: 22–23, 25, 35, 76–79, 85 WB-B: 130–132
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llea nlaca y	Descriptor	Page Citations
	value understanding and properties of ope	rations to add and
subtract.		
4	Add within 100, including adding a two-	TB-A: 70-73, 76
	digit number and a one-digit number, and	WB-A: 102-107
	adding a two-digit number and a multiple	TB-B: 34-35, 38-4
	of 10, using concrete models or drawings	82, 85, 87-88, 92-
	and strategies based on place value,	WB-B: 42, 44–57,
	properties of operations, and/or the	139–140, 147, 149
	relationship between addition and	153-166
	subtraction; relate the strategy to a	
	written method and explain the reasoning	
	used. Understand that in adding two-digit	
	numbers, one adds tens and tens, ones	
	and ones; and sometimes it is necessary to	
	compose a ten.	
5	Given a two-digit number, mentally find 10	TB-B: 34-35, 38,
	more or 10 less than the number, without	87-88
	having to count; explain the reasoning	WB-B: 42-44, 47-
	used.	144-149, 217
6	Subtract multiples of 10 in the range 10-	TB-B: 38
	90 from multiples of 10 in the range 10-90	WB-B: 171-174
	(positive or zero differences), 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.	
		. 1
Measureme Measure le		
Measure le	ngths indirectly and by iterating length ur	
	Order three objects by length; compare	TB-A: 91-94
Measure le	Order three objects by length; compare the lengths of two objects indirectly by	TB-A: 91-94
Measure le 1	Order three objects by length; compare the lengths of two objects indirectly by using a third object.	TB-A: 91-94 WB-A: 151-153, 3
Measure le	Order three objects by length; compare the lengths of two objects indirectly by	TB-A: 91-94
Measure le 1	Order three objects by length; compare the lengths of two objects indirectly by using a third object.	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit)	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length 	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number 	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with 	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts</i> 	TB-A: 91-94 WB-A: 151-153, 1
Measure le 1	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts where the object being measured is</i> 	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts where the object being measured is spanned by a whole number of length units</i> 	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1 2	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.</i> 	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1	Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts</i> where the object being measured is spanned by a whole number of length units with no gaps or overlaps.	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1 2	 Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.</i> 	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96
Measure le 1 2 Tell and wi	Order three objects by length; compare the lengths of two objects indirectly by using a third object. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts</i> where the object being measured is spanned by a whole number of length units with no gaps or overlaps.	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96 WB-A: 154-156, 1
Measure le 1 2 <u>Tell and wr</u> 3	Order three objects by length; compare the lengths of two objects indirectly by using a third object.Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.rite time.Tell and write time in hours and half-hours	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96 WB-A: 154-156, 1 TB-B: 68-72
Measure le 1 2 <u>Tell and wr</u> 3	Order three objects by length; compare the lengths of two objects indirectly by using a third object.Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts</i> where the object being measured is spanned by a whole number of length units with no gaps or overlaps.rite time.Tell and write time in hours and half-hours using analog and digital clocks.	TB-A: 91-94 WB-A: 151-153, 3 TB-A: 95-96 WB-A: 154-156, 3 TB-B: 68-72
Measure le 1 2 <u>Tell and wi</u> 3 Represent	Order three objects by length; compare the lengths of two objects indirectly by using a third object.Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.rite time.Tell and write time in hours and half-hours using analog and digital clocks.Organize, represent, and interpret data	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96 WB-A: 154-156, 1 TB-B: 68-72 WB-B: 115-122, 2 TB-B: 16-21
Measure le 1 2 <u>Tell and wi</u> 3 Represent	Order three objects by length; compare the lengths of two objects indirectly by using a third object.Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.rite time.Tell and write time in hours and half-hours using analog and digital clocks.and interpret data. With up to three categories; ask and	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96 WB-A: 154-156, 1 TB-B: 68-72 WB-B: 115-122, 2
Measure le 1 2 <u>Tell and wi</u> 3 Represent	Order three objects by length; compare the lengths of two objects indirectly by using a third object.Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.rite time.Tell and write time in hours and half-hours using analog and digital clocks.and interpret data.Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96 WB-A: 154-156, 1 TB-B: 68-72 WB-B: 115-122, 2 TB-B: 16-21
Measure le 1 2 <u>Tell and wi</u> 3 Represent	Order three objects by length; compare the lengths of two objects indirectly by using a third object.Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.rite time.Tell and write time in hours and half-hours using analog and digital clocks.and interpret data. With up to three categories; ask and	TB-A: 91-94 WB-A: 151-153, 1 TB-A: 95-96 WB-A: 154-156, 1 TB-B: 68-72 WB-B: 115-122, 2 TB-B: 16-21

Standards	Descriptor	Page Citations			
Geometry	1				
Reason with shapes and their attributes.					
1	Distinguish between defining attributes	TB-A: 83-90			
	(e.g., triangles are closed and three-sided)	WB-A: 132–135, 137,			
	versus non-defining attributes (e.g., color,	141-148, 193			
	orientation, overall size); build and draw				
	shapes to possess defining attributes.				
2	Compose two-dimensional shapes	TB-A: 89-90			
	(rectangles, squares, trapezoids, triangles,	WB-A: 149, 194			
	half-circles, and quarter-circles) or three-	WB-B: 224			
	dimensional shapes (cubes, right				
	rectangular prisms, right circular cones,				
	and right circular cylinders) to create a				
	composite shape, and compose new				
	shapes from the composite shape.				
3	Partition circles and rectangles into two	TB-B: 66-67			
	and four equal shares, describe the shares	WB-B: 109-114, 223			
	using the words <i>halves, fourths</i> , and				
	quarters, and use the phrases half of,				
	fourth of, and quarter of. Describe the				
	whole as two of, or four of the shares.				
	Understand for these examples that				
	decomposing into more equal shares				
	creates smaller shares.				



correlated to the Common Core State Standards for Mathematics

Standards	Descriptor	Page Citations
	and Algebraic Thinking	2.0A
	nd solve problems involving addition and	subtraction.
1	Use addition and subtraction within 100 to	TB-A: 24–31, 43–46,
	solve one- and two-step word problems	55-56, 58, 89, 101-102
	involving situations of adding to, taking	WB-A: 31-32, 36-37,
	from, putting together, taking apart, and	45, 81, 86, 174
	comparing, with unknowns in all positions,	TB-B: 8-12, 100, 137
	e.g., by using drawings and equations with	WB-B: 114
	a symbol for the unknown number to	
	represent the problem.	
Add and sub	otract within 20.	
2	Fluently add and subtract within 20 using	TB-A: 24–27
	mental strategies. By end of Grade 2,	WB-A: 31-33
	know from memory all sums of two one-	TB-B: 8-9
	digit numbers.	
Work with e	equal groups of objects to gain foundation	ns for multiplication.
3	Determine whether a group of objects (up	TB-A: 105–107
	to 20) has an odd or even number of	WB-A: 115-116
	members, e.g., by pairing objects or	WB-B: 143
	counting them by 2s; write an equation to	
	express an even number as a sum of two	See Grade 3:
	equal addends.	TB-A: 97
4	Use addition to find the total number of	TB-A: 90, 92
	objects arranged in rectangular arrays with	WB-A: 96, 99
	up to 5 rows and up to 5 columns; write an	
	equation to express the total as a sum of	
	equal addends.	
	I Operations in Base Ten	2.NBT
	place value.	
1	Understand that the three digits of a three-c	5
	amounts of hundreds, tens, and ones; e.g.,	
	0 tens, and 6 ones. Understand the following	
а	100 can be thought of as a bundle of ten	TB-A: 13-15
	tens — called a "hundred."	WB-A: 15, 17, 24
b	The numbers 100, 200, 300, 400, 500,	TB-A: 13, 15
	600, 700, 800, 900 refer to one, two,	
	three, four, five, six, seven, eight, or nine	
	hundreds (and 0 tens and 0 ones).	
2	Count within 1000; skip-count by 5s, 10s,	TB-A: 9, 13–16
	and 100s.	WB-A: 7-8, 12, 15, 17
		TB-B: 30-31, 34
		WB-B: 43, 49, 143

Standards	Descriptor	Page Citations
3	Read and write numbers to 1000 using	TB-A: 8-19, 23
	base-ten numerals, number names, and	WB-A: 9-11, 15-23,
	expanded form.	25, 28–29, 87
4	Compare two three-digit numbers based	TB-A: 20–21, 23
•	on meanings of the hundreds, tens, and	WB-A: 24–25, 29
	ones digits, using $>$, =, and $<$ symbols to	
	record the results of comparisons.	
llse place va	alue understanding and properties of ope	visitions to add and
subtract.	and and elstanding and properties of ope	
5	Fluently add and subtract within 100 using	TB-A: 24-31
5	strategies based on place value, properties	WB-A: 31-37
		TB-B: 8-13
	of operations, and/or the relationship	
<u> </u>	between addition and subtraction.	WB-B: 7-12, 18-19
6	Add up to four two-digit numbers using	TB-A: 24–26, 28–29,
	strategies based on place value and	31, 33
	properties of operations.	WB-A: 9, 14, 31, 34,
		36-38, 47
		TB-B: 8, 10-16
		WB-B: 7-9, 12, 15-1
		23
		(Adding up to
		3 numbers, including
		3-digit numbers)
7	Add and subtract within 1000, using	TB-A: 24–57
	concrete models or drawings and	WB-A: 31-67
	strategies based on place value, properties	TB-B: 8-20
	of operations, and/or the relationship	WB-B: 7-25
	between addition and subtraction; relate	
	the strategy to a written method.	
	Understand that in adding or subtracting	
	three-digit numbers, one adds or subtracts	
	hundreds and hundreds, tens and tens,	
	ones and ones; and sometimes it is	
	necessary to compose or decompose tens	
0	or hundreds.	TD A. 10 00 00
8	Mentally add 10 or 100 to a given number	TB-A: 12, 22–23,
	100–900, and mentally subtract 10 or 100	74-75, 126
	from a given number 100-900.	WB-A: 12–14, 26–27
		30
		TB-B: 14-19
		WB-B: 15-25
	Explain why addition and subtraction	TB-A: 24–37, 39–45,
9		
9	strategies work, using place value and the	47-54
	strategies work, using place value and the properties of operations (explanations may be supported by drawings or objects.)	WB-A: 32, 36, 38, 42 TB-B: 8-20

Standards	Descriptor	Page Citations
Measureme	nt and Data	2.MI
Measure an	d estimate lengths in standard units.	
1	Measure the length of an object by	TB-A: 61–62, 65–75
	selecting and using appropriate tools such	WB-A: 73-75, 78, 80
	as rulers, yardsticks, meter sticks, and	
	measuring tapes.	
2	Measure the length of an object twice,	TB-A: 59-60, 71, 73,
	using length units of different lengths for	126
	the two measurements; describe how the	WB-A: 72, 186
	two measurements relate to the size of the	
	unit chosen.	
3	Estimate lengths using units of inches,	TB-A: 63, 67
A	feet, centimeters, and meters.	WB-A: 75-78
4	Measure to determine how much longer	TB-A: 64–65, 68, 72
	one object is than another, expressing the	WB-A: 74, 76, 78
	length difference in terms of a standard	
Dolate addi	length unit. tion and subtraction to length.	
S	Use addition and subtraction within 100 to	TB-A: 64-65, 68,
5	solve word problems involving lengths that	74-75, 101, 125-126
	are given in the same units, e.g., by using	WB-A: 88, 91, 174
	drawings (such as drawings of rulers) and	WB-B: 90
	equations with a symbol for the unknown	
	number to represent the problem.	
6	Represent whole numbers as lengths from	TB-B: 108-110
-	0 on a number line diagram with equally	WB-A: 157, 159–160
	spaced points corresponding to the	-,
	numbers 0, 1, 2,, and represent whole-	See Grade 1:
	number sums and differences within 100	TB-A: 16–17, 51–53
	on a number line diagram.	
Work with t	ime and money.	
7	Tell and write time from analog and digital	TB-B: 76-79
	clocks to the nearest five minutes, using	WB-B: 115-121
	a.m. and p.m	
8	Solve word problems involving dollar bills,	TB-B: 45-48
	quarters, dimes, nickels, and pennies,	WB-B: 67, 72-74
	using \$ and ¢ symbols appropriately.	
	Example: If you have 2 dimes and 3	
	pennies, how many cents do you have?	
	and interpret data.	
9	Generate measurement data by measuring	TB-A: 60, 63, 67, 69
	lengths of several objects to the nearest	
	whole unit, or by making repeated	
	measurements of the same object. Show	
	the measurements by making a line plot,	
	where the horizontal scale is marked off in	
-	whole-number units.	

Standards	Descriptor	Page Citations
10	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information	TB-B: 101-102 WB-B: 149 See Grade 1: TB-B: 16-21
Geometry	presented in a bar graph.	WB-B: 19-29 2.G
_	shapes and their attributes.	210
1	Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces (Sizes are compared directly or visually, not compared by measuring.) Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	TB-B: 116-119, 125- 126 WB-B: 168-173, 181- 182
2	Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.	See Grade 3: TB-B: 139-144 WB-B: 163-166
3	Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words <i>halves</i> , <i>thirds</i> , <i>half</i> <i>of</i> , <i>a third of</i> , etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.	TB-B: 62-64 WB-B: 92-93



correlated to the Common Core State Standards for Mathematics

Standards	Descriptor	Page Citations
	and Algebraic Thinking	3.0A
Represent a	nd solve problems involving multiplication	on and division.
1	Interpret products of whole numbers, e.g., interpret 5 \times 7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5 \times 7.	TB-A: 69-71, 75, 111- 112, 117-119, 124- 125, 128 WB-A: 66-71, 111
2	Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. For example, describe a context in which a number of shares or a number of groups can be expressed as $56 \div 8$.	TB-A: 72-73, 76, 78 WB-A: 72-73
3	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	TB-A: 69-71, 75-81 WB-A: 67-68, 79-81, 181 TB-B: 57, 62, 64, 110, 126 WB-B: 27, 45
4	Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48$, $5 = _ \div 3$, $6 \times 6 = ?$.	TB-A: 69–73, 76, 78–79, 112–113, 116, 118–120, 124, 126, 128–129 WB-A: 71–77, 95, 113–115, 122–124, 132–134, 141–142

Standards	Descriptor	Page Citations
	properties of multiplication and the relation	tionship between
multiplication	on and division.	
5	Apply properties of operations as strategies to multiply and divide. Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$, then $15 \times 2 = 30$, or by $5 \times 2 = 10$, then $3 \times 10 = 30$.	TB-A: 70, 72–73, 84, 108–109, 111–113, 118–120, 124, 128–130, 133–134 WB-A: 67, 69, 73, 111 150–151
-	(Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7 as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$. (Distributive property.)	
6	Understand division as an unknown-factor problem. For example, find 32 ÷ 8 by finding the number that makes 32 when multiplied by 8.	TB-A: 72–73, 113 WB-A: 72–77
	divide within 100.	
7	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div$ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	TB-A: 68-81, 108-113 117-120, 124-125, 128-130 WB-A: 66-67, 73-77, 104, 111-114, 117, 122-124, 127, 132-133, 141-142
Solve proble	ems involving the four operations, and id	
patterns in		
8	Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	TB-A: 62–64, 67, 79–81 WB-A: 59–61, 64–65, 82–85, 131, 140, 149 TB-B: 45, 63, 126, 137 WB-B: 45–46
M	Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. <i>For</i> <i>example, observe that 4 times a number is</i> <i>always even, and explain why 4 times a</i> <i>number can be decomposed into two equal</i>	TB-A: 15-17, 111-112 118-119, 124, 128-130 WB-A: 14-16, 68, 71, 104, 156
	addends.	
Number and	d Operations in Base Ten	3.NB1
	alue understanding and properties of ope	
1	Use place value understanding to round whole numbers to the nearest 10 or 100.	TB-A: 18-23 WB-A: 17-20

Standards	Descriptor	Page Citations
2	Fluently add and subtract within 1000	TB-A: 27-40, 45-49,
	using strategies and algorithms based on	62-63
	place value, properties of operations,	WB-A: 26-38, 42-47,
	and/or the relationship between addition	TB-B: 27
	and subtraction.	WB-B: 44
3	Multiply one-digit whole numbers by	TB-A: 82-84, 92, 109
-	multiples of 10 in the range 10–90 (e.g., 9	WB-A: 86, 88, 150
	\times 80, 5 \times 60) using strategies based on	
	place value and properties of operations.	
Number and	d Operations—Fractions	3.NI
	derstanding of fractions as numbers.	
1	Understand a fraction 1/b as the quantity	TB-B: 85-87
	formed by 1 part when a whole is	WB-B: 90-95
	partitioned into <i>b</i> equal parts; understand	
	a fraction a/b as the quantity formed by a	
	parts of size 1/b.	
2	Understand a fraction as a number on the number	umber line: represent
_	fractions on a number line diagram.	
а	Represent a fraction $1/b$ on a number line	See Grade 4:
-	diagram by defining the interval from 0 to	TB-A: 79
	1 as the whole and partitioning it into b	WB-A: 70
	equal parts. Recognize that each part has	
	size $1/b$ and that the endpoint of the part	
	based at 0 locates the number $1/b$ on the	
	number line.	
b	Represent a fraction a/b on a number line	See Grade 4:
2	diagram by marking off a lengths $1/b$ from	TB-A: 79
	0. Recognize that the resulting interval has	WB-A: 70
	size a/b and that its endpoint locates the	
	number a/b on the number line.	
3	Explain equivalence of fractions in special ca	ses, and compare
-	fractions by reasoning about their size.	
а	Understand two fractions as equivalent	TB-B: 91-96
-	(equal) if they are the same size, or the	WB-B: 104–107
	same point on a number line.	
b 🔨	Recognize and generate simple equivalent	TB-B: 91-96
	fractions, e.g., $1/2 = 2/4$, $4/6 = 2/3$).	WB-B: 100–107
	Explain why the fractions are equivalent,	
	e.g., by using a visual fraction model.	
c	Express whole numbers as fractions, and	TB-B: 85-86, 93
	recognize fractions that are equivalent to	WB-B: 90-93,
	whole numbers. <i>Examples: Express 3 in</i>	101-102
	the form $3 = 3/1$; recognize that $6/1 = 6$;	
	locate 4/4 and 1 at the same point of a	See Grade 4:
	number line diagram.	TB-A: 90-93
		WB-A: 79, 82–83, 86
		1 = 0 = 1 = 7 = 7 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0

Standards	Descriptor	Page Citations
d	Compare two fractions with the same	TB-B: 88-89
	numerator or the same denominator by	WB-B: 96-97
	reasoning about their size. Recognize that	
	comparisons are valid only when the two	
	fractions refer to the same whole. Record	
	the results of comparisons with the	
	symbols >, =, or $<$, and justify the	
	conclusions, e.g., by using a visual fraction	
	model.	
Measureme	nt and Data	3.M
-	ems involving measurement and estimati	on of intervals of tim
	nes, and masses of objects.	1
1	Tell and write time to the nearest minute	TB-B: 112–115
	and measure time intervals in minutes.	WB-B: 123-126
	Solve word problems involving addition	
	and subtraction of time intervals in	
	minutes, e.g., by representing the problem	
	on a number line diagram.	
2	Measure and estimate liquid volumes and	TB-B: 30-31, 48-50
	masses of objects using standard units of	WB-B: 28-29, 49-50
	grams (g), kilograms (kg), and liters (l).	
	Add, subtract, multiply, or divide to solve	See Grade 2:
	one-step word problems involving masses	TB-B: 90-94
	or volumes that are given in the same	WB-B: 139–140
	units, e.g., by using drawings (such as a	
	beaker with a measurement scale) to	
	represent the problem.	
Represent a	and interpret data.	1
3	Draw a scaled picture graph and a scaled	TB-A: 140-143
	bar graph to represent a data set with	WB-A: 162–167
	several categories. Solve one- and two-	
	step "how many more" and "how many	See Grade 2:
	less" problems using information presented	TB-B: 101–113
	in scaled bar graphs. <i>For example, draw a</i>	WB-B: 148-161
	bar graph in which each square in the bar	
	graph might represent 5 pets.	
4	Generate measurement data by measuring	See Grade 2:
	lengths using rulers marked with halves	TB-B: 72-73
	and fourths of an inch. Show the data by	
	making a line plot, where the horizontal	
	scale is marked off in appropriate units—	
Goomotric	whole numbers, halves, or quarters.	a and rolate area to
	neasurement: understand concepts of are on and to addition.	ea and relate area to
5	Recognize area as an attribute of plane figur	res and understand
		es ann understand
\sim	concepts of area measurement.	TD D. 120 142
a	A square with side length 1 unit, called "a	TB-B: 139–143
	unit square," is said to have "one square	WB-B: 159-166
	Lunit" of area and can be used to measure	1
	unit" of area, and can be used to measure area.	

Standards	Descriptor	Page Citations				
b	A plane figure which can be covered	TB-B: 139–146				
	without gaps or overlaps by n unit squares	WB-B: 159-169				
	is said to have an area of n square units.					
6	Measure areas by counting unit squares	TB-B: 139–146				
	(square cm, square m, square in, square	WB-B: 159-169				
	ft, and improvised units).					
7	Relate area to the operations of multiplication	on and addition.				
а	Find the area of a rectangle with whole-	See Grade 4:				
	number side lengths by tiling it, and show	TB-A: 141-144				
	that the area is the same as would be	WB-A: 162-163				
	found by multiplying the side lengths.					
b	Multiply side lengths to find areas of	See Grade 4:				
	rectangles with whole- number side	TB-A: 141–144				
	lengths in the context of solving real world	WB-A: 162–164				
	and mathematical problems, and represent					
	whole-number products as rectangular					
	areas in mathematical reasoning.					
с	Use tiling to show in a concrete case that	TB-A: 111-112, 118-				
-	the area of a rectangle with whole-number	119, 124, 128, 130				
	side lengths a and $b + c$ is the sum of					
	$a \times b$ and $a \times c$. Use area models to					
	represent the distributive property in					
	mathematical reasoning.					
d	Recognize area as additive. Find areas of	See Grade 4:				
-	rectilinear figures by decomposing them	TB-A: 151–155				
	into non-overlapping rectangles and	WB-A: 172–174				
	adding the areas of the non-overlapping					
	parts, applying this technique to solve real					
	world problems.					
Geometric n	neasurement: recognize perimeter as an	attribute of plane				
	figures and distinguish between linear and area measures.					
8	Solve real world and mathematical	TB-B: 147–150				
	problems involving perimeters of polygons,	WB-B: 170-172				
	including finding the perimeter given the					
	side lengths, finding an unknown side					
	length, and exhibiting rectangles with the					
\sim	same perimeter and different areas or with					
	the same area and different perimeters.					

Standards	Descriptor	Page Citations
Geometry		3.G
Reason with	n shapes and their attributes.	
1	Understand that shapes in different	TB-B: 129, 132–133
	categories (e.g., rhombuses, rectangles,	WB-B: 146-152
	and others) may share attributes (e.g.,	
	having four sides), and that the shared	
	attributes can define a larger category	
	(e.g., quadrilaterals). Recognize	
	rhombuses, rectangles, and squares as	
	examples of quadrilaterals, and draw	
	examples of quadrilaterals that do not	
	belong to any of these subcategories.	
2	Partition shapes into parts with equal	TB-B: 86-87
	areas. Express the area of each part as a	WB-B: 90, 92-95
	unit fraction of the whole. For example,	
	partition a shape into 4 parts with equal	
	area, and describe the area of each part as	
	1/4 of the area of the shape.	



correlated to the Common Core State Standards for Mathematics

Standards	Descriptor	Page Citations			
	and Algebraic Thinking	4.0A			
Use the four operations with whole numbers to solve problems.					
1	Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7	TB-A: 59, 64, 67 See Grade 3:			
	and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.	TB-A: 77–79, 84, 91 WB-A: 84–85			
2	Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.	TB-A: 59-60, 64-67, 73 WB-A: 54, 66, 114, 160 TB-B: 32, 92 WB-B: 40			
3	Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	TB-A: 51, 57-60, 64-67 WB-A: 49-50, 54-55, 66, 112-114, 116 WB-B: 40, 103, 117			
Gain familiarity with factors and multiples.					
4	Find all factor pairs for a whole number in the range 1–100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.	TB-A: 26-37 WB-A: 21-27			

	Descriptor	Page Citations
Generate a	nd analyze patterns.	
5	Generate a number or shape pattern that	TB-A: 17, 33
	follows a given rule. Identify apparent	WB-A: 15
	features of the pattern that were not	TB-B: 97-99
	explicit in the rule itself. For example,	WB-B: 111-112
	given the rule "Add 3" and the starting	
	number 1, generate terms in the resulting	
	sequence and observe that the terms	
	appear to alternate between odd and even	
	numbers. Explain informally why the	
	numbers will continue to alternate in this	
	way.	
	d Operations in Base Ten	4.NE
	place value understanding for multi-digit	
1	Recognize that in a multi-digit whole	TB-A: 19, 62–63, 68 [.]
	number, a digit in one place represents ten	70, 72
	times what it represents in the place to its	WB-A: 17-18
	right. For example, recognize that 700 ÷	
	70 = 10 by applying concepts of place	See Grade 3:
	value and division.	TB-A: 82-84
		WB-A: 86-88
		See Grade 5:
		TB-A: 23-27
		WB-A: 18-19
2	Read and write multi-digit whole numbers	TB-A: 8-15, 21
-	using base-ten numerals, number names,	WB-A: 7–12, 15
	-	WD-A. /-12, 15
	and expanded form. Compare two multi-	
	digit numbers based on meanings of the	
	digits in each place, using >, =, and <	
	symbols to record the results of	
	comparisons.	
3	Use place value understanding to round	TB-A: 22-24
	multi-digit whole numbers to any place.	WB-A: 19-20
llse nlace v	alue understanding and properties of ope	rations to perform
		ations to perform
multi-digit		
		TB-A: 51-58
multi-digit	arithmetic.	-
multi-digit	arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm.	TB-A: 51–58 WB-A: 40–50
multi-digit a 4	arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm. Multiply a whole number of up to four	TB-A: 51–58 WB-A: 40–50 TB-A: 59, 61, 65, 67
multi-digit a 4	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.Multiply a whole number of up to four digits by a one-digit whole number, and	TB-A: 51–58 WB-A: 40–50 TB-A: 59, 61, 65, 67 72
multi-digit a 4	 arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm. Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using 	TB-A: 51–58 WB-A: 40–50 TB-A: 59, 61, 65, 67 72
multi-digit a 4	arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm. 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	TB-A: 51–58 WB-A: 40–50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56–61
multi-digit a 4	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.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	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3:
multi-digit a 4	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.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,	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91
multi-digit	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.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.	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97
multi-digit a 4	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.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.Find whole-number quotients and	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97 TB-A: 60, 62-64, 66
multi-digit	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.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.Find whole-number quotients and remainders with up to four-digit dividends	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91
multi-digit	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.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.Find whole-number quotients and	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97 TB-A: 60, 62-64, 66
multi-digit	 arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm. 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. Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies 	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97 TB-A: 60, 62-64, 66 67
multi-digit	arithmetic.Fluently add and subtract multi-digit whole numbers using the standard algorithm.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.Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97 TB-A: 60, 62-64, 66 67
multi-digit	 arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm. 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. Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship 	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97 TB-A: 60, 62-64, 66 67 WB-A: 52-53 See Grade 3:
multi-digit	 arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm. 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. Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. 	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97 TB-A: 60, 62-64, 66 67 WB-A: 52-53 See Grade 3: TB-A: 94-103
multi-digit	 arithmetic. Fluently add and subtract multi-digit whole numbers using the standard algorithm. 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. Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship 	TB-A: 51-58 WB-A: 40-50 TB-A: 59, 61, 65, 67 72 WB-A: 51, 53, 56-61 See Grade 3: TB-A: 82-91 WB-A: 86-97 TB-A: 60, 62-64, 66 67 WB-A: 52-53 See Grade 3:

Standards	Descriptor	Page Citations
	d Operations—Fractions	4.NF
Extend und	erstanding of fraction equivalence and or	
1	Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are	TB-A: 77-80 WB-A: 67-70
_	the same size. Use this principle to recognize and generate equivalent fractions.	TR A 70.00
2	Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a	TB-A: 79-80 WB-A: 70, 87 See Grade 3:
	benchmark fraction such as 1/2. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.	TB-B: 95-96 WB-B: 108
Build fraction	ons from unit fractions by applying and ex	ytending previous
	ings of operations on whole numbers.	renanig previous
3	Understand a fraction a/b with $a > 1$ as a su	m of fractions 1/b.
a	Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	TB-A: 81-87 WB-A: 71-76 See Grade 3: TB-B: 97-101
b	Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each	WB-B: 109-114 TB-A: 88-92 WB-A: 77-85
	decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. <i>Examples:</i> 3/8 = 1/8 + 1/8 + 1/8; $3/8 = 1/8 + 2/8$; 2 1/8 = 1+1 + 1/8 = 8/8 + 8/8 + 1/8.	See Grade 2: TB-B: 67 See Grade 3: TB-B: 85, 97
c	Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.	TB-A: 88-89, 92-93 WB-A: 77-78, 83-85
d	Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and	TB-A: 81-82, 87 WB-A: 75-76 See Grade 3:

Standards	Descriptor	Page Citations
4	Apply and extend previous understandings o	f multiplication to
	multiply a fraction by a whole number.	
а	Understand a fraction <i>a/b</i> as a multiple of	See Grade 5:
	1/b. For example, use a visual fraction	TB-A: 64–66
	model to represent 5/4 as the product	WB-A: 60-63
	$5 \times (1/4)$, recording the conclusion by the	
	equation $5/4 = 5 \times (1/4)$.	
b	Understand a multiple of <i>a/b</i> as a multiple	TB-A: 98–100
	of $1/b$, and use this understanding to	WB-A: 91–97
	multiply a fraction by a whole number. For	
	example, use a visual fraction model to	See Grade 5:
	express $3 \times (2/5)$ as $6 \times (1/5)$,	TB-A: 69–70
	recognizing this product as 6/5. (In	WB-A: 62-63
	general, $n \times (a/b) = (n \times a)/b$.)	
С	Solve word problems involving	TB-A: 101–105
	multiplication of a fraction by a whole	WB-A: 98-109
	number, e.g., by using visual fraction	
	models and equations to represent the	
	problem. For example, if each person at a	
	party will eat 3/8 of a pound of roast beef,	
	and there will be 5 people at the party,	
	how many pounds of roast beef will be	
	needed? Between what two whole numbers	
	does your answer lie?	
	decimal notation for fractions, and comp	are decimal fractions.
5	Express a fraction with denominator 10 as	TB-B: 17-18
	an equivalent fraction with denominator	WB-B: 19-20
	100, and use this technique to add two	
	fractions with respective denominators 10	
	and 100. For example, express 3/10 as	
	30/100, and add 3/10 + 4/100 = 34/100.	
6	Use decimal notation for fractions with	TB-B: 8-10, 12, 14-19
	denominators 10 or 100. For example,	WB-B: 7-9, 12, 19-20
	<i>rewrite 0.62 as 62/100; describe a length</i>	
	as 0.62 meters; locate 0.62 on a number	
	line diagram.	
7	Compare two decimals to hundredths by	TB-B: 21–22
	reasoning about their size. Recognize that	WB-B: 25-26
	comparisons are valid only when the two	
	decimals refer to the same whole. Record	
	the results of comparisons with the	
	the results of comparisons with the symbols $>$, =, or <, and justify the	

Standards	Descriptor	Page Citations
Measureme		4.MD
	ems involving measurement and convers	ion of measurements
	er unit to a smaller unit.	
1	Know relative sizes of measurement units	TB-B: 129
	within one system of units including km,	WB-B: 144-145
	m, cm; kg, g; lb, oz.; l, ml; hr, min, sec.	
	Within a single system of measurement,	See Grade 2:
	express measurements in a larger unit in	TB-A: 61–69, 76–87
	terms of a smaller unit. Record	TB-B: 90-94
	measurement equivalents in a two- column	Cas Crada 2:
	table. For example, know that 1 ft is 12	See Grade 3:
	times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a	TB-B: 8-10, 13-15,
	conversion table for feet and inches listing	20-22, 26, 30-32, 41-42, 49-54, 57-60,
	5	62
	the number pairs (1, 12), (2, 24), (3, 36),	
2	Use the four operations to solve word	TB-A: 40, 56, 58, 65,
2	problems involving distances, intervals of	67, 80, 97, 102,
	time, liquid volumes, masses of objects,	104–105, 109, 140,
	and money, including problems involving	159, 161
	simple fractions or decimals, and problems	WB-A: 49-50, 55, 66,
	that require expressing measurements	75, 78, 98–99,
	given in a larger unit in terms of a smaller	101–103, 105–109,
	unit. Represent measurement quantities	112–113, 115–116,
	using diagrams such as number line	158-159, 161, 179, 18
	diagrams that feature a measurement	TB-B: 10–11, 14,
	scale.	28-30, 34-35, 45-49,
		58, 73, 90, 92, 104,
		124, 128, 130–136,
		147-148, 151
		WB-B: 11, 39–40, 80,
		103-104, 117-118,
3	Apply the area and perimeter formulas for	120, 142–143, 156–16 TB–A: 141–156
5	rectangles in real world and mathematical	WB-A: 162–171
	problems. For example, find the width of a	
	rectangular room given the area of the	
	flooring and the length, by viewing the	
	area formula as a multiplication equation	
	with an unknown factor.	
Represent a	ind interpret data.	
4	Make a line plot to display a data set of	TB-B: 107–108, 111,
	measurements in fractions of a unit (1/2,	113
	1/4, 1/8). Solve problems involving	WB-B: 122–123, 126
	addition and subtraction of fractions by	
	using information presented in line plots.	
	For example, from a line plot find and	
	interpret the difference in length between	
	the longest and shortest specimens in an	
	insect collection.	1

	Is Descriptor	Page Citations
	c measurement: understand concepts of an	gle and measure
angles. 5		
5	Recognize angles as geometric shapes that a	
	rays share a common endpoint, and underst	and concepts of angle
	measurement:	
а	An angle is measured with reference to a	TB-A: 110–111, 11
	circle with its center at the common	
	endpoint of the rays, by considering the	
	fraction of the circular arc between the	
	points where the two rays intersect the	
	circle. An angle that turns through 1/360	
	of a circle is called a "one-degree angle,"	
	and can be used to measure angles.	
b	An angle that turns through n one-degree	TB-A: 112-115
	angles is said to have an angle measure of	WB-A: 123-131
	<i>n</i> degrees.	
6	Measure angles in whole-number degrees	TB-A: 112-115
	using a protractor. Sketch angles of	WB-A: 121-131
	specified measure.	
7	Recognize angle measure as additive.	TB-A: 114-115
-	When an angle is decomposed into non-	WB-A: 128–131
	overlapping parts, the angle measure of	
	the whole is the sum of the angle	
	measures of the parts. Solve addition and	
	subtraction problems to find unknown	
	angles on a diagram in real world and	
	mathematical problems, e.g., by using an	
	equation with a symbol for the unknown	
Coomotra	angle measure.	
Geometry		a hu nu anti a a f
	identify lines and angles, and classify shap s and angles.	bes by properties of
1	Draw points, lines, line segments, rays,	TB-A: 111-124
_	angles (right, acute, obtuse), and	WB-A: 117–124
	perpendicular and parallel lines. Identify	
	perpendicular and parallel lines. Identify	
2	these in two-dimensional figures.	TR_A. 122_124 12
2	these in two-dimensional figures.Classify two-dimensional figures based on	
2	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or	WB-A: 133, 140-14
2	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or	-
2	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of	WB-A: 133, 140-14
2	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles	TB-A: 122–124, 126 WB-A: 133, 140–14 143
	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.	WB-A: 133, 140-14 143
2	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of 	WB-A: 133, 140-14 143 TB-B: 81-86
	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.Recognize a line of symmetry for a two- dimensional figure as a line across the	WB-A: 133, 140-14 143
	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of 	WB-A: 133, 140-14 143 TB-B: 81-86
	these in two-dimensional figures.Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.Recognize a line of symmetry for a two- dimensional figure as a line across the	WB-A: 133, 140-14 143 TB-B: 81-86
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correlated to the Common Core State Standards for Mathematics

Standards	Descriptor	Page Citations
Operations	and Algebraic Thinking	5
Write and ir	terpret numerical expressions.	
1	Use parentheses, brackets, or braces in	TB-A: 29-33
	numerical expressions, and evaluate	WB-A: 22-24
	expressions with these symbols.	
2	Write simple expressions that record	TB-A: 29-32
	calculations with numbers, and interpret	WB-A: 14, 22-24,
	numerical expressions without evaluating	
	them. For example, express the calculation	See Grade 4:
	"add 8 and 7, then multiply by 2" as	TB-A: 41
	$2 \times (8 + 7)$. Recognize that	WB-A: 32
	$3 \times (18932 + 921)$ is three times as large	
	as 18932 + 921 without having to	
	calculate the indicated sum or product.	
Analyze pat	terns and relationships.	
3	Generate two numerical patterns using two	TB-B: 162
	given rules. Identify apparent relationships	WB-B: 153
	between corresponding terms. Form	
	ordered pairs consisting of corresponding	See Grade 4:
	terms from the two patterns, and graph	TB-B: 97-99
	the ordered pairs on a coordinate plane.	WB-B: 111-112
	For example, given the rule "Add 3" and	
	the starting number 0, and given the rule	
	"Add 6" and the starting number 0,	
	generate terms in the resulting sequences,	
	and observe that the terms in one	
	sequence are twice the corresponding	
	terms in the other sequence. Explain	
	informally why this is so.	
	I Operations in Base Ten	5.
	the place value system.	
1	Recognize that in a multi-digit number, a	TB-A: 8
	digit in one place represents 10 times as	TB-B: 9, 23-24
	much as it represents in the place to its	
	right and 1/10 of what it represents in the	See Grade 4:
	place to its left.	TB-A: 8–12
		WB-A: 7
2	Explain patterns in the number of zeros of	TB-A: 23-26
	the product when multiplying a number by	WB-A: 16-19
	powers of 10, and explain patterns in the	TB-B: 23-30
	placement of the decimal point when a	WB-B: 14, 16-17
	decimal is multiplied or divided by a power	
	of 10. Use whole-number exponents to	
	denote powers of 10.	

Standards	5 Descriptor	Page Citations
3	Read, write, and compare decimals to thous	andths.
а	Read and write decimals to thousandths	TB-B: 8, 10
	using base-ten numerals, number names,	WB-B: 5
	and expanded form, e.g., $347.392 = 3 \times$	
	$100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times$	See Grade 4:
	$(1/100) + 2 \times (1/1000).$	TB-B: 12-15, 26
		WB-B: 15, 21, 29
b	Compare two decimals to thousandths	TB-B: 11–12
-	based on meanings of the digits in each	WB-B: 6
	place, using >, =, and < symbols to record	
	the results of comparisons.	See Grade 4:
		TB-B: 21-22, 24-2
		WB-B: 25–26, 31
4	Use place value understanding to round	TB-B: 13-15
•	decimals to any place.	WB-B: 7
	decimals to any place.	
		See Grade 4:
		TB-B: 28-30
		WB-B: 34-36
Perform or	perations with multi-digit whole numbers	
hundredth	-	
5	Fluently multiply multi-digit whole	TB-A: 23-28, 35-3
•	numbers using the standard algorithm.	42-43, 48-49
		WB-A: 16-17, 27-
		35-36, 76
6	Find whole-number quotients of whole	TB-A: 44–48, 50
0	numbers with up to four-digit dividends	WB-A: 37-40
	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.	
7	Add, subtract, multiply, and divide	TB-B: 16-41
	decimals to hundredths, using concrete	WB-B: 8-29
	models or drawings and strategies based	VVD-D. 0-29
	on place value, properties of operations,	See Grade 4:
		TB-B: 35-67
	and/or the relationship between addition	
	and subtraction; relate the strategy to a	WB-B: 42-76
	written method and explain the reasoning	
Number	used.	_
	nd Operations—Fractions	5.
	elent fractions as a strategy to add and sul	
1 /	Add and subtract fractions with unlike	TB-A: 58-63, 106
	denominators (including mixed numbers)	WB-A: 52–59, 77,
	by replacing given fractions with equivalent	
	fractions in such a way as to produce an	
	equivalent sum or difference of fractions	
	with like denominators. For example, 2/3	
	+ 5/4 = 8/12 + 15/12 = 23/12. (In	

Standards	Descriptor	Page Citations
2	Solve word problems involving addition and subtraction of fractions referring to the	TB-A: 60, 63, 79
	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 $2/5 + 1/2 = 3/7$, by	
	observing that 3/7 < 1/2.	
	xtend previous understandings of multip d divide fractions.	lication and division to
3	Interpret a fraction as division of the	TB-A: 54-57
5	numerator by the denominator $(a/b = a \div$	WB-A: 50–51
	b). 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	
4	two whole numbers does your answer lie?	f multiplication to
4	Apply and extend previous understandings of multiply a fraction or whole number by a fra	-
2		
а	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts;	TB-A: 67–75, 80–87 WB-A: 64–75, 81–86
	equivalently, as the result of a sequence of	WD-A. $0+-75, 01-00$
	operations $a \times q \div b$. For example, use a	
\sim	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,	
	$(a/b) \times (c/d) = ac/bd.)$	
b	Find the area of a rectangle with fractional	TB-A: 81, 83
<u>, , , , , , , , , , , , , , , , , , , </u>	side lengths by tiling it with unit squares of	WB-A: 80
	the appropriate unit fraction side lengths,	
	and show that the area is the same as	
\sim /	would be found by multiplying the side	
\sim	lengths. Multiply fractional side lengths to	
	find areas of rectangles, and represent	
	fraction products as rectangular areas.	

Standards	Descriptor	Page Citations
5	Interpret multiplication as scaling (resizing),	
а	Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	TB-A: 80-87 WB-A: 79-87
b	Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of multiplying a/b by 1.	TB-A: 80-83 WB-A: 79-82
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.	TB-A: 80-87 WB-A: 80, 83-86
7	Apply and extend previous understandings of fractions by whole numbers and whole num	
а	Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. For example, create a story context for $(1/3) \div 4$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $(1/3) \div 4 = 1/12$ because $(1/12) \times 4 = 1/3$.	TB-A: 88-89 WB-A: 87
Ь	Interpret division of a whole number by a unit fraction, and compute such quotients. 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 $20 \times (1/5) = 4$.	TB-A: 91-92 WB-A: 91-92
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. 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?	TB-A: 91-92, 98, 106 WB-A: 90

Standards	Descriptor	Page Citations
Measureme		5.MD
Convert like	e measurement units within a given meas	urement system.
1	Convert among different-sized standard	TB-A: 71-72
	measurement units within a given	WB-A: 66-69
	measurement system (e.g., convert 5 cm	TB-B: 44-47
	to 0.05 m), and use these conversions in	WB-B: 34-36
	solving multi-step, real world problems.	
Represent a	ind interpret data.	•
2	Make a line plot to display a data set of	TB-A: 64, 99
	measurements in fractions of a unit (1/2,	TB-B: 123
	1/4, 1/8). Use operations on fractions for	
	this grade to solve problems involving	See Grade 3:
	information presented in line plots. For	TB-A: 145
	example, given different measurements of	See Grade 4:
	liquid in identical beakers, find the amount	TB-B: 107–108, 111,
	of liquid each beaker would contain if the	113
	total amount in all the beakers were	See Grade 6:
	redistributed equally.	TB-B: 89, 93
Geometric r	neasurement: understand concepts of vo	
	nultiplication and to addition.	
3	Recognize volume as an attribute of solid fig	ures and understand
•	concepts of volume measurement.	
а	A cube with side length 1 unit, called a	TB-B: 48
-	"unit cube," is said to have "one cubic unit"	
	of volume, and can be used to measure	See Grade 3:
	volume.	TB-B: 151–156
		WB-B: 173-179
		See Grade 4:
		TB-B: 137
		WB-B: 150
b	A solid figure, which can be packed without	TB-B: 49–53
5	gaps or overlaps using n unit cubes, is said	
	to have a volume of <i>n</i> cubic units.	See Grade 3:
		TB-B: 155–156
		WB-B: 179
		See Grade 4:
		TB-B: 137
		WB-B: 150
4	Measure volumes by counting unit cubes,	TB-B: 48-49
רא גרי	using cubic cm, cubic in, cubic ft, and	
		See Grade 4:
	improvised units.	
		TB-B: 137–138, 142
		WB-B: 150–151

Standards	Descriptor	Page Citations
5	Relate volume to the operations of multiplication	
	solve real world and mathematical problems	
а	Find the volume of a right rectangular	TB-B: 50-52
-	prism with whole-number side lengths by	
	packing it with unit cubes, and show that	See Grade 4:
	the volume is the same as would be found	TB-B: 140-143
	by multiplying the edge lengths,	WB-B: 151-152
	equivalently by multiplying the height by	
	the area of the base. Represent threefold	
	whole-number products as volumes, e.g.,	
	to represent the associative property of	
	multiplication.	
b	Apply the formulas $V = I \times w \times h$ and $V =$	TB-B: 51-52
	$b \times h$ for rectangular prisms to find	WB-B: 37
	volumes of right rectangular prisms with	
	whole- number edge lengths in the context	See Grade 4:
	of solving real world and mathematical	TB-B: 140–143, 145
	-	
	problems.	WB-B: 150–152
С	Recognize volume as additive. Find	TB-B: 49
	volumes of solid figures composed of two	
	non-overlapping right rectangular prisms	See Grade 4:
	by adding the volumes of the non-	TB-B: 137–139, 145
		,
	overlapping parts, applying this technique	WB-B: 150
Geometry	overlapping parts, applying this technique	WB-B: 150
Graph poin	overlapping parts, applying this technique	WB-B: 150 5.0
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w	WB-B: 150 5.0 vorld and mathematica
Graph poin	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines,	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system,	WB-B: 150 5.0 vorld and mathematica
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4:
Graph poin problems.	 overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-weet Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane 	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	 overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of 	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4:
Graph poin problems.	 overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. 	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	 overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of 	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	 overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. 	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-we Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-we Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> -	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> - axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> -	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96
Graph poin problems. 1	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-we Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> - axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> - coordinate).	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96 WB-B: 107-110
Graph poin problems.	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> - axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> - coordinate). Represent real world and mathematical	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96 WB-B: 107-110 TB-B: 128-130
Graph poin problems. 1	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> - axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> - coordinate). Represent real world and mathematical problems by graphing points in the first	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96 WB-B: 107-110
Graph poin problems. 1	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> - axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> - coordinate). Represent real world and mathematical	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96 WB-B: 107-110 TB-B: 128-130
Graph poin problems. 1	overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> - axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> - coordinate). Represent real world and mathematical problems by graphing points in the first	WB-B: 150 5.0 vorld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96 WB-B: 107-110 TB-B: 128-130
Graph poin problems. 1	 overlapping parts, applying this technique to solve real world problems. ts on the coordinate plane to solve real-w Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel from the two axes and the coordinates correspond (e.g., <i>x</i>-axis and <i>x</i>-coordinate, <i>y</i>-axis and <i>y</i>-coordinate). Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and 	WB-B: 150 5.0 orld and mathematica TB-B: 156-163 WB-B: 151-154 See Grade 4: TB-B: 93-96 WB-B: 107-110 TB-B: 128-130 WB-B: 122

Standards	Descriptor	Page Citations		
Classify two-dimensional figures into categories based on their properties.				
3	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.	TB-B: 95-98 See Grade 3: TB-B: 127-134 WB-B: 146-152 See Grade 4: TB-A: 122-127 WB-A: 140-143		
4	Classify two-dimensional figures in a hierarchy based on properties.	See Grade 3: TB-B: 132-134 WB-B: 146-152 See Grade 4: TB-A: 122-127 WB-A: 140-143		



correlated to the Common Core State Standards for Mathematics

Standards	Descriptor	Page Citations
	Proportional Relationships	6.RP
Understand	ratio concepts and use ratio reasoning to	o solve problems.
1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate	TB-A: 90-95 WB-A: 75-76 See Grade 5: TB-A: 135-138 WB-A: 129-138
2	<i>C received nearly three votes."</i> Understand the concept of a unit rate <i>a/b</i> associated with a ratio <i>a</i> : <i>b</i> with <i>b</i> not equal to 0, and use rate language in the context of a ratio relationship. For example, "This	TB-A: 90-95 WB-A: 75-76
	recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is 3/4 cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger."	
3	Use ratio and rate reasoning to solve real-we problems, e.g., by reasoning about tables of diagrams, double number line diagrams, or e	equivalent ratios, tape
a	Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	TB-A: 92-99 WB-A: 22, 75-78 TB-B: 185 See Grade 5: TB-A: 139-143, 159, 162-163
Б	Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?	TB-A: 124–143 WB-A: 94–105, 109–110, 112
c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	TB-A: 73-77, 121 WB-A: 63-66, 89 See Grade 5: TB-B: 61-63, 69-73 WB-B: 51, 58-64
d	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	TB-A: 96-99 WB-A: 77-78

Standards	Descriptor	Page Citations		
The Number	System	6.NS		
Apply and e	xtend previous understandings of multip	lication and division to		
divide fractions by fractions.				
1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for (2/3) \div (3/4) and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that (2/3) \div (3/4) = 8/9 because 3/4 of 8/9 is 2/3. (In general, (a/b) \div (c/d) = ad/bc.) How much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 3/4-cup servings are in 2/3 of a cup of yogurt? How wide is a rectangular strip of land with	TB-A: 64-70 WB-A: 54-55, 57-58, 62 See Grade 5: TB-A: 93, 96-97 WB-A: 93, 95		
	length 3/4 mi and area 1/2 square mi?			
	ently with multi-digit numbers and find o	common factors and		
multiples.				
2	Fluently divide multi-digit numbers using the standard algorithm.	See Grade 5: TB-A: 25-26, 44-48 WB-A: 18, 37-40 TB-B: 18-21, 27-30, 33-34, 38-40 WB-B: 9-10, 16-18, 22-23, 27-29		
3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	See Grade 5: TB-B: 16-41 WB-B: 8-29		
4	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express $36 + 8$ as 4(9 + 2).	See Grade 5: TB-A: 17-18, 31-32 WB-A: 12-13, 24		

Standards	Descriptor	Page Citations
	extend previous understandings of numbers	ers to the system of
rational nui 5		TB-A: 39-42
5	Understand that positive and negative	IB-A: 39-42
	numbers are used together to describe	
	quantities having opposite directions or	See Grade 4:
	values (e.g., temperature above/below	TB-A: 42–47
	zero, elevation above/below sea level,	WB-A: 34-37
	credits/debits, positive/negative electric	See Grade 5:
	charge); use positive and negative	TB-B: 149–151
	numbers to represent quantities in real-	WB-B: 146-147
	world contexts, explaining the meaning of	
	0 in each situation.	
6	Understand a rational number as a point on	the number line. Extend
	number line diagrams and coordinate axes f	amiliar from previous
	grades to represent points on the line and ir	the plane with negative
	number coordinates.	. 2
а	Recognize opposite signs of numbers as	TB-A: 40-41
	indicating locations on opposite sides of 0	
	on the number line; recognize that the	See Grade 5:
	opposite of the opposite of a number is the	TB-B: 149–151
	number itself, e.g., $-(-3) = 3$, and that 0	WB-B: 146–147
	is its own opposite.	
b	Understand signs of numbers in ordered	TB-B: 185-186
0	pairs as indicating locations in quadrants of	
	the coordinate plane; recognize that when	See Grade 5:
	two ordered pairs differ only by signs, the	TB-B: 156–157
		WB-B: 151
	locations of the points are related by reflections across one or both axes.	WD-D: 151
с	Find and position integers and other	TB-A: 40-42
L	rational numbers on a horizontal or vertical	WB-A: 21, 37-40
		WB-A: 21, 37-40
	number line diagram; find and position	See Crede 4:
	pairs of integers and other rational	See Grade 4:
	numbers on a coordinate plane.	TB-A: 42-44, 47
		WB-A: 34-35
		See Grade 5:
		TB-B: 149–151,
		156-157
		WB-B: 151
7	Understand ordering and absolute value of r	
а	Interpret statements of inequality as	TB-A: 39-46
	statements about the relative position of	WB-A: 37-44
	two numbers on a number line diagram.	
	For example, interpret $-3 > -7$ as a	See Grade 4:
	statement that -3 is located to the right of	TB-A: 42-45
	–7 on a number line oriented from left to	WB-A: 36
	right.	See Grade 5:
		TB-B: 149-151
		WB-B: 147

Standards	Descriptor	Page Citations
b	Write, interpret, and explain statements of	TB-A: 39, 43
	order for rational numbers in real-world	WB-A: 42
	contexts. For example, write $-3^{\circ}C > -7^{\circ}C$	Cas Crada A.
	to express the fact that -3° C is warmer	See Grade 4: TB-A: 42-43
	than −7°C.	WB-A: 34-35
		VVD-A. 54-55
		See Grade 5:
		TB-B: 149-150
		WB-B: 146
С	Understand the absolute value of a rational	TB-A: 40-44
	number as its distance from 0 on the	
	number line; interpret absolute value as	See Grade 5:
	magnitude for a positive or negative	TB-B: 151
	quantity in a real-world situation. For	WB-B: 147
	example, for an account balance of -30 dollars, write $ -30 = 30$ to describe the	
	size of the debt in dollars.	
d	Distinguish comparisons of absolute value	See Grade 4:
	from statements about order. For example,	TB-A: 42-43
	recognize that an account balance less	WB-A: 36-37
	than –30 dollars represents a debt greater	See Grade 5:
	than 30 dollars.	TB-B: 149-151
		WB-B: 146
8	Solve real-world and mathematical	TB-A: 26-30
	problems by graphing points in all four	WB-A: 21-28
	quadrants of the coordinate plane. Include use of coordinates and absolute value to	TB-B: 185–192 WB-B: 155–161
	find distances between points with the	VVD-D: 155-161
	same first coordinate or the same second	See Grade 5:
	coordinate.	TB-B: 156–157
		WB-B: 151
Expression	s and Equations	6.E
	extend previous understandings of arithm	etic to algebraic
expressions 1		TB-B: 179-180
<u></u>	Write and evaluate numerical expressions involving whole-number exponents.	WB-B: 179-180 WB-B: 151, 153-154
	involving whole-number exponents.	**D -D. 131, 133-134
		See Grade 5:
		TB-A: 21
		WB-A: 15
		VVD-A: 15
2	Write, read, and evaluate expressions in wh	
2	numbers.	ich letters stand for
2 a	numbers. Write expressions that record operations	ich letters stand for TB-A: 10-13, 19-25
2 a	numbers. Write expressions that record operations with numbers and with letters standing for	ich letters stand for
	numbers. Write expressions that record operations with numbers and with letters standing for numbers. <i>For example, express the</i>	ich letters stand for TB-A: 10–13, 19–25 WB-A: 5–10, 15–20
	numbers. Write expressions that record operations with numbers and with letters standing for	ich letters stand for TB-A: 10–13, 19–25 WB-A: 5–10, 15–20 See Grade 5:
	numbers. Write expressions that record operations with numbers and with letters standing for numbers. <i>For example, express the</i>	ich letters stand for TB-A: 10–13, 19–25 WB-A: 5–10, 15–20

Standards	Descriptor	Page Citations
b	Identify parts of an expression using	TB-A: 8-11
	mathematical terms (sum, term, product,	
	factor, quotient, coefficient); view one or	See Grade 5:
	more parts of an expression as a single	TB-A: 17-21, 29-33
	entity. For example, describe the	TB-B: 140–148
	expression 2 $(8 + 7)$ as a product of two	
	factors; view $(8 + 7)$ as both a single	
	entity and a sum of two terms.	
с	Evaluate expressions at specific values of	TB-A: 19-25
C	their variables. Include expressions that	WB-A: 15-20, 61
	arise from formulas used in real-world	112 /11 13 20, 01
	problems. Perform arithmetic operations,	See Grade 5:
	including those involving whole-number	TB-B: 140–148
	exponents, in the conventional order when	WB-B: 139-143
	there are no parentheses to specify a	WD-D: 139 143
	particular order (Order of Operations).	
	For example, use the formulas $V = s^3$ and	
	$A = 6s^2$ to find the volume and surface	
	area of a cube with sides of length $s = \frac{1}{2}$.	
3	Apply the properties of operations to	See Grade 5:
5		TB-B: 140-148
	generate equivalent expressions. For	
	example, apply the distributive property to	WB-B: 144-145
	the expression $3(2 + x)$ to produce the	
	equivalent expression $6 + 3x$; apply the	
	distributive property to the expression 24x	
	+ 18y to produce the equivalent	
	expression 6 $(4x + 3y)$; apply properties of	
	operations to $y + y + y$ to produce the	
	equivalent expression 3y.	
4	Identify when two expressions are	TB-A: 8-11
	equivalent (i.e., when the two expressions	
	name the same number regardless of	See Grade 5:
	which value is substituted into them). For	TB-B: 140-148
	example, the expressions $y + y + y$ and $3y$	
	are equivalent because they name the	
~	are equivalent because they name the same number regardless of which number	
\wedge	are equivalent because they name the same number regardless of which number y stands for.	
	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i	
Reason abou	are equivalent because they name the same number regardless of which number y stands for. ut and solve one-variable equations and i Understand solving an equation or	TB-A: 14-18
	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a	
	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified	TB-A: 14-18
	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality	TB-A: 14-18
	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine	TB-A: 14-18
	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set	TB-A: 14-18
5 M	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	TB-A: 14-18 WB-A: 11-14
	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set	TB-A: 14-18
5 M	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	TB-A: 14-18 WB-A: 11-14
5 M	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true. Use variables to represent numbers and	TB-A: 14-18 WB-A: 11-14 TB-A: 10-13, 19-25
5 M	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true. Use variables to represent numbers and write expressions when solving a real-	TB-A: 14-18 WB-A: 11-14 TB-A: 10-13, 19-25 WB-A: 5-10, 15-20,
5 M	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and if Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true. Use variables to represent numbers and write expressions when solving a real- world or mathematical problem; understand that a variable can represent	TB-A: 14-18 WB-A: 11-14 TB-A: 10-13, 19-25 WB-A: 5-10, 15-20,
5 M	are equivalent because they name the same number regardless of which number y stands for. It and solve one-variable equations and i Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true. Use variables to represent numbers and write expressions when solving a real- world or mathematical problem;	TB-A: 14-18 WB-A: 11-14 TB-A: 10-13, 19-25 WB-A: 5-10, 15-20,

Standards	Descriptor	Page Citations
7	Solve real-world and mathematical	TB-A: 14-18
	problems by writing and solving equations	WB-A: 11-13
	of the form $x + p = q$ and $px = q$ for cases	
	in which p , q and x are all nonnegative	
	rational numbers.	
8	Write an inequality of the form $x > c$ or	
	x < c to represent a constraint or condition	
	in a real-world or mathematical problem.	
	Recognize that inequalities of the form	
	x > c or x < c have infinitely many	
	solutions; represent solutions of such	
	inequalities on number line diagrams.	
	nd analyze quantitative relationships bet	ween dependent and
independen		
9	Use variables to represent two quantities	TB-A: 26
	in a real-world problem that change in	WB-A: 22
	relationship to one another; write an	
	equation to express one quantity, thought	
	of as the dependent variable, in terms of	
	the other quantity, thought of as the	
	independent variable. Analyze the	
	relationship between the dependent and	
	independent variables using graphs and	
	tables, and relate these to the equation.	
	For example, in a problem involving	
	motion at constant speed, list and graph	
	ordered pairs of distances and times, and	
	write the equation $d = 65t$ to represent the	
•	relationship between distance and time.	
Geometry	und and mathematical mahlema involui	6.G
and volume	vorld and mathematical problems involving	ng area, surface area,
1	Find the area of right triangles, other	See Grade 5:
	triangles, special quadrilaterals, and	TB-A: 108–126,
	polygons by composing into rectangles or	133–134, 149
~	decomposing into triangles and other	WB-A: 106–120, 125–
$ \land $	shapes; apply these techniques in the	127, 141
	context of solving real-world and	TB-B: 43, 59-60,
	mathematical problems.	104–105, 120, 137
\		WB-B: 32, 45, 114,
		137
	/	

Standards	Descriptor	Page Citations
2	Find the volume of a right rectangular	TB-B: 29–33
	prism with fractional edge lengths by	WB-B: 24-32
	packing it with unit cubes of the	
	appropriate unit fraction edge lengths, and	See Grade 4:
	show that the volume is the same as would	TB-B: 140-146
	be found by multiplying the edge lengths	WB-B: 151-152
	of the prism. Apply the formulas $V = I w h$	See Grade 5:
	and $V = b h$ to find volumes of right	TB-B: 50-53, 60, 122
	rectangular prisms with fractional edge	WB-B: 37
	lengths in the context of solving real-world	_
	and mathematical problems.	
3	Draw polygons in the coordinate plane	See Grade 4:
•	given coordinates for the vertices; use	TB-B: 96
	coordinates to find the length of a side	WB-B: 109–110
	joining points with the same first	
	coordinate or the same second coordinate.	
	Apply these techniques in the context of	
	solving real-world and mathematical	
	problems.	
4	Represent three-dimensional figures using	See Grade 4:
-	nets made up of rectangles and triangles,	TB-A: 132–136
	and use the nets to find the surface area of	WB-A: 148-155
	these figures. Apply these techniques in	See Grade 5:
	the context of solving real-world and	TB-A: 127–130
	-	
Statistics a	mathematical problems.	WB-A: 121-122
	mathematical problems. nd Probability	WB-A: 121-122
	mathematical problems. nd Probability derstanding of statistical variability.	WB-A: 121-122 6.S
Develop un	mathematical problems. nd Probability derstanding of statistical variability. Recognize a statistical question as one that	WB-A: 121-122 6.S TB-B: 88-119
Develop un	mathematical problems. nd Probability derstanding of statistical variability. Recognize a statistical question as one that anticipates variability in the data related to	WB-A: 121-122 6.S
Develop un	mathematical problems. nd Probability derstanding of statistical variability. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the	WB-A: 121-122 6.S TB-B: 88-119
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Standards	Descriptor	Page Citations
b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.	TB-B: 88-119 WB-B: 92-116
C	Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	TB-B: 88-94, 97-99, 105, 107-110, 114-117 WB-B: 92-95, 100, 103-108, 114-116
d	Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	TB-B: 90-92, 109-113, 117

