

Math Curriculum Map and Pacing Guide – Grade 4

Pacing	Topics	envision Math Topics	Pages	NY CCLS	Modules	Common Core Modules	Supplemental Materials
1 Day	1	Topic 1-1 Meanings of Multiplication	6-9	4.OA.1	<p>Module 3: Multi-Digit Multiplication and Division</p> <p>Module 7: Exploring Multiplication</p>	<p>4.OA.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 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations</p>	
1 Day	1	Topic 1-2 Pattern for Facts	10-11	4.OA.5	<p>Module 5: Fraction Equivalence, Ordering, and Operations</p>	<p>4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, 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</p>	

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1 Day	1	Topic 1-3 Multiplication Properties	12-13	4.OA.1	<p>Module 3: Multi-Digit Multiplica tion and Division</p> <p>Module 7: Exploring Multiplica tion</p>	<p>4.OA.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 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations</p>	
1 Day	1	Topic 1-4 3,4,6,7, and 8 as Factors	14-17				
1 Day	1	Topic 1-5 Problem Solving: Look for a Pattern	18-19	4.OA.3	<p>Module 1: Place Value, Rounding, and Algor ithms for Addition and Subtrac tion</p> <p>Module 3: Multi-Digit Multiplica tion and Division</p>	<p>4.OA.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</p>	Do pages 18-19 together.

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					Module 7: Exploring Multiplication	including rounding.	
1 Day	1	Topic 1-6 Meanings of Division	20-23	4.OA.2	Module 3: Multi-Digit Multiplication and Division Module 7: Exploring Multiplication	4.OA.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	
1 Day	1	Topic 1-7 Relating Multiplication and Division	24-25	4.OA.1	Module 3: Multi-Digit Multiplication and Division Module 7: Exploring Multiplication	4.OA.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 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations	
1 Day	1	Topic 1-8 Special Quotients	26-27	4.OA.2	Module 3: Multi-Digit Multiplication and Division	4.OA.2 Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a	

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					Module 7: Exploring Multiplication	symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison	
1 Day	1	Topic 1-9 Using Multiplication Facts to Find Division Facts	28-29	4.OA.2	Module 3: Multi-Digit Multiplication and Division Module 7: Exploring Multiplication	4.OA.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	
Optional	1	Topic 1-10 Problem Solving: Draw a Picture and Write an Equation	30 -31	4.OA.2	Module 3: Multi-Digit Multiplication and Division Module 7: Exploring Multiplication	4.OA.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	Other multi-step word problem activities. *Do pages 30 and 31 together.
Homework		Topic 1 Pre-Test	34-35				

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1 Day	1	Correct together: Topic 1 Pre-Test TOPIC 1 TEST	34-35				*Assign Test as Individual Work *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	2	Topic 2-1 Repeating Patterns	40-41	4.OA.5	Module 5: Fraction Equivalence, Ordering, and Operations	4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, 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.	
1 Day	2	Topic 2-2 Number Sequences	42-43	4.OA.5	Module 5: Fraction Equivalence, Ordering,	4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the	

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					and Opera tions	pattern that were not explicit in the rule itself. For example, 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.	
1 Day	2	Topic 2-3 Extending Tables	44-45	4.OA.5	Module 5: Fraction Equiva lence, Ordering, and Opera tions	4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, 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.	

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1 Day	2	Topic 2-4 Writing Rules for Situations	46-49	4.OA.5	Module 5: Fraction Equivalence, Ordering, and Operations	4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, 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.	
Optional / include with other lessons	2	Topic 2-5 Geometric Patterns	50-53	4.OA.5	Module 5: Fraction Equivalence, Ordering, and Operations	4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, given the rule “Add 3” and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate	

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						between odd and even numbers. Explain informally why the numbers will continue to alternate in this way.	
1 Day	2	Topic 2-6 Problem Solving: Act it Out and Use Reasoning	54-57	4.OA.5	Module 5: Fraction Equivalence, Ordering, and Operations	4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, 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.	Other multi-step word problems. *Do pages 54-57 together.
Homework	2	Topic 2 Pre-Test	60-61				
1 Day	2	Correct together: Topic 2 Pre-Test TOPIC 2 TEST	60-61				*Assign Topic Test as Individual work. *Test Masters

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		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	3	Topic 3-1 Representing Numbers *Focus on PLACE	66-67	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	
1 Day	3	Topic 3-1 Representing Numbers *Focus on VALUE	66-67	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	
1 Day	3	Topic 3-1 Representing Numbers *Focus on Standard, Expanded and Word Form	66-67	4.NBT.2	Module 1: Place Value, Rounding, and	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, and	

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					Algorithms for Addition and Subtraction	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	
OMIT, but put in Topic 4	3	Topic 3-2 Place Value Relationships	68-69	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	
1 or 2 Days	3	Topic 3-3 Comparing Numbers	70-73	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	

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1 Day	3	Topic 3-4 Ordering Numbers	74-77	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	
1 to 2 Days	3	Topic 3-5 Rounding Whole Numbers	78-79	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	
OMIT, but put in Topic 4	3	Topic 3-6 Problem Solving: Make an Organized List	80-81	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using	

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					Subtraction	>, =, and < symbols to record the results of comparisons	
Homework	3	Topic 3 Pre-Test	84-85				
1 Day	3	Correct together: Topic 3 Pre-test .TOPIC 3 TEST	84-85				*Assign Topic Test as Individual Work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
Skip/Optional	4	Topic 4-1 Using Mental Math to Add and Subtract	90- 93	4.NBT.3 4.OA.3	Module 1 Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.3 Use place value understanding to round multi-digit whole numbers to any place. 4.OA.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	

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						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.	
1 Day	3	Topic 3-2 Place Value Relationships	68-69	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	
1 Day	3	Topic 3-6 Problem Solving: Make an Organized List	80-81	4.NBT.2	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, 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	*Do pages 80 and 81 together.

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1 Day	4	Topic 4-2 Estimating Sums and Differences of Whole Numbers	94-95	4.NBT.3 4.NBT.4 4.OA.3	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	<p>4.NBT.3 Use place value understanding to round multi-digit whole numbers to any place. Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Use the four operations with whole numbers to solve problems.</p> <p>4.OA.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</p>	
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						and estimation strategies including rounding.	
1 Day	4	Topic 4-3 Adding Whole Numbers	96-99	4.NBT.4	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Use the four operations with whole numbers to solve problems.	
1 Day	4	Topic 4-4 Subtracting Whole Numbers	100-101	4.NBT.4	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Use the four operations with whole numbers to solve problems.	
1 – 2 Days	4	Topic 4-5 Subtracting Across Zeros	102-103	4.NBT.4	Module 1: Place Value, Rounding, and Algorithms for Addition and	4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Use the four operations with whole numbers to solve problems.	*An extra day may be necessary to practice subtraction and borrowing.

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					Subtraction		
1 Day	4	Topic 4-6 Problem Solving: Draw a Picture and Write an Equation	104- 107	4.NBT.4	Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Use the four operations with whole numbers to solve problems.	*Do pages 104-107 together. *Focus on Equations.
Homework	4	Topic 4 Pre-Test	110- 111				
1 Day	4	Correct together: Topic 4 Pre-Test TOPIC 4 TEST	110- 111				*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	

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1 Day	5	<p>Topic 5-1 Arrays and Multiplying by 10 and 100.</p> <p>Topic 5-2 Multiplying by Multiples of 10 and 100</p>	<p>116- 117</p> <p>118- 119</p>	<p>4.NBT.5</p> <p>4.NBT.5</p>	<p>Module 3: Multi-Digit Multiplicati on and Division</p>	<p>4.NBT.5 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.</p>	<p>Show arrays to develop a visual understanding of the meaning of multiplication.</p>
1 Day	5	<p>Topic 5-3 Breaking Apart to Multiply</p>	<p>120- 121</p>	<p>4.NBT.5</p>	<p>Module 3: Multi-Digit Multiplicati on and Division</p>	<p>4.NBT.5 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.</p>	
SKIP	5	<p>Topic 5-4 Using Mental Math to Multiply</p>	<p>122- 123</p>	<p>4.NBT.5</p>	<p>Module 3: Multi-Digit Multiplicati on and Division</p>	<p>4.NBT.5 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</p>	

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						value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
1 Day	5	Topic 5-5 Using Rounding to Estimate	124-125	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.
1 Day	5	Topic 5-6 Problem Solving	126-129	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.

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Homework	5	Topic 5 Pre-Test	132-133				
1 Day	5	Correct together: Topic 5 Pre-Test TOPIC 5 TEST					*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	6	Topic 6-1 Arrays and Using an Expanded Algorithm	138-141	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.	
1 Day	6	Topic 6-2 Connecting the Expanded and Standard Algorithms	142-143	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-	

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						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.	
1 Day	6	Topic 6-3 Multiplying 2-Digit by 1-Digit Numbers	144-147	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.	
1 Day	6	Topic 6-4 Multiplying 3-and 4-Digit by 1-Digit Numbers	148-151	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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	

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						area models.	
SKIP	6	Topic 6-5 Multiplying by 1-Digit	152- 153	4.NBT.5	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.5 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.	
SKIP	6	Topic 6-6 Problem Solving: Missing or Extra Information	154- 157	4.NBT.5	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.5 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.	

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Homework	6	Topic 6 Pre-Test	160-161				
1 Day	6	Correct together: Topic 6 Pre-Test TOPIC 6 TEST					*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	7	Topic 7-1 Arrays and Multiplying 2-Digit Numbers by Multiples of 10	166-169	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.	
1 Day	7	Topic 7-2 Using Mental Math to Multiply 2-Digit Numbers	170-171	4.NBT.5	Module 3: Multi-Digit Multiplication and	4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number,	

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					Division	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.	
1 Day	7	Topic 7-3 Using Rounding to Estimate	172-173	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.	
SKIP	7	Topic 7-4 Using Compatible Numbers to Estimate	174-175	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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,	

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						rectangular arrays, and/or area models.	
1 Day	7	Topic 7-5 Problem Solving: Multiple-Step Problems	176- 177	4.NBT.5	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.5 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.	Do pages 176 and 177 together.
Homework	7	Topic 7 Pre-Test	180- 181				
1 Day	7	Correct together: Topic 7 Pre-Test TOPIC 7 TEST					*Assign Topic Test as individual work. *Test Masters
2 Days	8	Topic 8-1 Arrays and Multiplying 2-Digit Numbers	186- 189	4.NBT.5	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two- digit numbers, using	

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						strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	
1 Day	8	Topic 8-2 Arrays and an Expanded	190-191	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.	
1 Day	8	Topic 8-3 Multiplying 2-Digit Numbers by Multiples of 10	192-193	4.NBT.5	Module 3: Multi-Digit Multiplication and Division	4.NBT.5 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.	

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3 Days	8	Topic 8-4 Multiplying 2-Digit by 2-Digit Numbers	194- 195	4.NBT.5	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.5 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.	
1 Day	8	Topic 8-5 Problem Solving Two Question Problems	196- 197	4.NBT.5	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.5 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.	Do pages 196 – 197 together.
Homework	8	Topic 8 Pre-Test	200- 201				

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1 Day	8	Correct together: Topic 8 Pre-Test TOPIC 8 TEST					*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	10	Topic 10-1 Using Objects to Divide: Division as Repeated Subtraction	228-229	4.NBT.6	Module 3: Multi-Digit Multiplication and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	
SKIP	10	Topic 10-2 Division as Repeated Subtraction	230-231	4.NBT.6	Module 3: Multi-Digit Multiplication and Division	4.NBT.6 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	

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						between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	
1 Day	10	Topic 10-3 Using Objects to Divide	232- 235	4.NBT.6 4.NBT.1	<p>Module 3: Multi-Digit Multiplication and Division</p> <p>Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction</p>	<p>4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p>4.NBT.1 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example, recognize that $700 \div 70 = 10$ by applying concepts of place value and division.</p>	

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2 Days	10	Topic 10-4 Dividing 2-Digit by 1-Digit Numbers	236- 239	4.NBT.6	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	Lots of modeling. SuperTeacher worksheets.
2 Days	10	Topic 10-5 Dividing 3-Digit by 1-Digit Numbers	240- 241	4.NBT.6	Module 3: Multi-Digit Multiplicati on and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	Lots of modeling. CommonCore sheets.

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1 Day	10	Topic 10-6 Deciding where to Start Dividing	242- 243	4.NBT.6	Module 3: Multi-Digit Multiplica tion and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	
1 Day	10	Topic 10-7 Dividing 4-Digit by 1-Digit Numbers	244- 245	4.NBT.6	Module 3: Multi-Digit Multiplica tion and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	

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1 Day	10	Topic 10-8 Problem Solving: Multiple-Step Problems	246- 247	4.OA.3 4.NBT.5	Module 1: Place Value, Rounding, and Algor ithms for Addition and Subtrac tion	4.OA.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. 4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two twodigit 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.	Do pages 246 and 247 together.
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HOMework	10	Topic 10 Pre-Test	250-251				
1 Day	10	Correct together: Topic 10 Pre-Test TOPIC 10 TEST					*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	9	Topic 9-1 Using Mental Math to Divide	206-207	4.NBT.6 4.OA.3	Module 3: Multi-Digit Multiplication and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. 4.OA.3 Solve multistep word problems posed with whole numbers and	

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						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.	
1 Day	9	Topic 9-2 Estimating Quotients	208- 209	4.NBT.6 4.OA.3	Module 3: Multi-Digit Multiplication and Division	<p>4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p>4.OA.3 Solve multistep word problems posed with</p>	

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						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.	
1 Day	9	Topic 9-3 Estimating Quotients for Greater Dividends	210-211	4.NBT.6 4.OA.3	Module 3: Multi-Digit Multiplication and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. 4.OA.3 Solve multistep word	

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						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.	
2-3 Days	9	Topic 9-4 Dividing with Remainders	212- 213	4.NBT.6	Module 3: Multi-Digit Multiplication and Division	4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models	*Put an X in quotient NOT zero.

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SKIP/Optional	9	Topic 9-5 Multiplication and Division Stories	214- 217	4.NBT.6 4.NBT.5	Module 3: Multi-Digit Multiplication and Division	<p>4.NBT.6 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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p>4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two twodigit 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.</p>	
1 Day	9	Topic 9-6 Problem Solving: Draw a Picture and Write an Equation	218- 219	4.NBT.6 4.OA.2 4.OA.3	Module 3: Multi-Digit Multiplication and Division	<p>4.NBT.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit</p>	Do pages 218 and 219 together.

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						<p>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.</p> <p>4.OA.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.</p> <p>4.OA.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</p>	
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						standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	
HOMEWORK	9	Topic 9 Pre-Test	222-223				
1 Day	9	Correct together: Topic 9 Pre-Test TOPIC 9 TEST					*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	11	Topic 11-1 Factors	258-259	4.OA.4 4.OA.5	Module 3: Multi-Digit Multiplication and Division Module 5: Fraction Equivalence, Ordering, and Operations	4.OA.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	

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						<p>range 1– 100 is prime or composite.</p> <p>4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, 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.</p>	
1 Day	11	Topic 11-2 Prime and Composite Numbers	260-261	4.OA.4	Module 3: Multi-Digit Multiplication and Division	<p>4.OA.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</p>	Use chart on page 261 to 100.

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						given whole number in the range 1– 100 is prime or composite.	
1 Day	11	Topic 11-3 Multiples	262- 263	4.OA.4 4.OA.5	<p>Module 3: Multi-Digit Multiplication and Division</p> <p>Module 5: Fraction Equivalence, Ordering, and Operations</p>	<p>4.OA.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.</p> <p>4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, given the rule “Add 3” and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate</p>	Vocabulary – factors, multiples

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						between odd and even numbers. Explain informally why the numbers will continue to alternate in this way.	
2 Days	11	Topic 11-4 Equivalent Fractions	264- 267	4.NF.1 4.NF.2	Module 5: Fraction Equiva lence, Ordering, and Opera tions	<p>4.NF.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 the same size. Use this principle to recognize and generate equivalent fractions.</p> <p>4.NF.2 Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1/2$. Recognize that comparisons are valid only when the two fractions refer to the same whole.</p>	Fraction tiles/chart

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1 Day	11	Topic 11-5 Number Lines and Equivalent Fractions	268- 269	4.NF.1 4.NF.2	Module 5: Fraction Equiva lence, Ordering, and Opera tions	4.NF.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 the same size. Use this principle to recognize and generate equivalent fractions. 4.NF.2 Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1/2$. Recognize that comparisons are valid only when the two fractions refer to the same whole.	On number line – count spaces not lines.
1 Day	11	Topic 11-6 Comparing Fractions	270- 273	4.NF.2	Module 5: Fraction Equiva lence, Ordering,	4.NF.2 Compare two fractions with different numerators and different denominators, e.g., by	Cross multiply, Benchmark fractions, Learnzillion videos.

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					and Opera tions	creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or	
1 Day	11	Topic 11-7 Ordering Fractions	274- 275	4.NF.2	Module 5: Fraction Equiva lence, Ordering, and Opera tions	4.NF.2 Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or	Benchmark fractions, common denominator.
SKIP	11	Topic 11-8 Problem Solving: Writing to Explain	276- 279	4.NF.2 4.NF.1	Module 5: Fraction Equiva lence,	4.NF.2 Compare two fractions with different numerators and different	

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					Ordering, and Operations	denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$. Recognize that comparisons are valid only when the two fractions refer to the same whole. 4.NF.1 Explain why a fraction $\frac{a}{b}$ is equivalent to a fraction $\frac{n \times a}{n \times b}$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.	
HOMEWORK	11	Topic 11 Pre-Test	284-285				

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1 Day	11	Correct together: Topic 11 Pre-Test TOPIC 11 TEST					*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	
1 Day	12	Topic 12-1 Modeling Addition of Fractions	290-291	4.NF.3 4.NF.3.a	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3 Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$. 4.NF.3a. Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	
May combine Topics 12-2 and 12-4	12						
1 Day with 12-4	12	Topic 12-2 Adding Fractions with Like Denominators	292-293	4.NF.3.a 4.NF.3.d	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3.a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. 4.NF.3.d Solve word problems involving addition and subtraction of fractions	

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						referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.	
1 Day	12	Topic 12-3 Modeling Subtraction of Fractions	294-295	4.NF.3.a 4.NF.3.d	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3.a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. 4.NF.3.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 equations to represent the problem.	Keep modeling separate from computation.
1 Day with 12-2	12	Topic 12-4 Subtracting Fractions with Like Denominators	296-297	4.NF.3.a 4.NF.3.d	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3.a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. 4.NF.3.d Solve word problems involving addition and subtraction of fractions referring to the same	

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						whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.	
1 Day	12	Topic 12-5 Adding and Subtracting on the Number Line	298-301	4.NF.3.a 4.NF.3.d	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3.a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. 4.NF.3.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 equations to represent the problem.	
2 Days	12	Topic 12-6 Improper Fractions and Mixed Numbers	302-305	4.NF.3.c 4.NF.3.b	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3.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	Keep separate: 1 day Mixed Numbers 1 day Improper Fractions

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						<p>4.NF.3.b Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples: $\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$; $\frac{3}{8} = \frac{1}{8} + \frac{2}{8}$; $2\frac{1}{8} = 1 + 1 + \frac{1}{8} = \frac{8}{8} + \frac{8}{8} + \frac{1}{8}$.</p>	
2 Days	12	Topic 12-7 Modeling Addition and Subtraction of Mixed Numbers	306-309	4.NF.3.c 4.NF.3.b	<p>Module 5 Fraction Equivalence, Ordering, and Operations</p>	<p>4.NF.3.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</p> <p>4.NF.3.b Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify</p>	

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						decompositions, e.g., by using a visual fraction model. Examples: $\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$; $\frac{3}{8} = \frac{1}{8} + \frac{2}{8}$; $2\frac{1}{8} = 1 + 1 + \frac{1}{8} = \frac{8}{8} + \frac{8}{8} + \frac{1}{8}$.	
May combine Topics 12-8 and 12-9	12						
1 Day with 12-9	12	Topic 12-8 Adding Mixed Numbers	310-311	4.NF.3.c	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3.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	
1 Day with 12-8	12	Topic 12-9 Subtracting Mixed Numbers	312-313	4.NF.3.c	Module 5 Fraction Equivalence, Ordering, and Operations	4.NF.3.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	

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1 Day	12	Topic 12-10 Decomposing and Composing Fractions	314- 315	4.NF.3.b 4.NF.3.d	Module 5 Fraction Equiva lence, Ordering, and Opera tions	4.NF.3.b Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples: $\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$; $\frac{3}{8} = \frac{1}{8} + \frac{2}{8}$; $2\frac{1}{8} = 1 + 1 + \frac{1}{8} = \frac{8}{8} + \frac{8}{8} + \frac{1}{8}$. 4.NF.3.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 equations to represent the problem.	

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1 Day	12	Topic 12-11 Problem Solving: Draw a Picture and Write an Equation	316- 319	4.NF.3.d 4.NF.3.a	Module 5 Fraction Equiva lence, Ordering, and Opera tions	4.NF.3.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 equations to represent the problem. 4.NF.3.a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	Do pages 316-319 together
HOMEWORK	12	Topic 12 Pre-Test	322- 323				
1 Day	12	Correct together: Topic 12 Pre-Test TOPIC 12 TEST					*Assign Topic Test as individual work. *Test Masters
		*Recommendation -	Assign	Daily Common Core	As	Independent Practice	

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1 Day	13	Topic 13-1 Fractions as Multiples of Unit Fractions: Using Models	330 - 331	4.NF.4.a	Module 5 Fraction Equiva lence, Ordering, and Opera tions	4.NF.4 a Understand a fraction a/b as a multiple of $1/b$. For example, use a visual fraction model to represent $5/4$ as the product $5 \times (1/4)$, recording the conclusion by the equation $5/4 = 5 \times$ $(1/4)$. b	
1 Day	13	Topic 13-2 Multiplying a Fraction by a Whole Number: Using Models	332 – 333	4.NF.4.b	Module 5 Fraction Equiva lence, Ordering, and Opera tions	4.NF.4.b Understand a multiple of a/b as a multiple of $1/b$, and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express $3 \times (2/5)$ as $6 \times (1/5)$, recognizing this product as $6/5$. (In general, $n \times$ $(a/b) = (n \times a)/b$.)	
1 Day	13	Topic 13-3 Multiplying a Fraction by a Whole Number: Using Symbols	334 – 335	4.NF.4.c	Module 5 Fraction Equiva lence, Ordering, and Opera tions	4.NF.4.c Solve word problems involving multiplication of a fraction by a whole 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	

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						people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?	
1 Day	13	Topic 13-4 Fractions and Decimals 10ths	336 – 337	4.NF.5 4.NF.6	Module 6 Decimal Fractions	<p>4.NF.5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.2 For example, express $\frac{3}{10}$ as $\frac{30}{100}$, and add $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$.</p> <p>4.NF.6. Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as $\frac{62}{100}$; describe a length as 0.62 meters; locate 0.62 on a number line diagram.</p>	10ths – Use extra supplements
1 Day	13	Topic 13-4 Fractions and Decimals 100ths	336 - 337	4.NF.5 4.NF.6	Module 6 Decimal Fractions	<p>4.NF.5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two</p>	100th – Use extra supplements

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						<p>fractions with respective denominators 10 and 100.2 For example, express $\frac{3}{10}$ as $\frac{30}{100}$, and add $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$.</p> <p>4.NF.6 Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as $\frac{62}{100}$; describe a length as 0.62 meters; locate 0.62 on a number line diagram.</p>	
SKIP/Optional	13	Topic 13-5 Fractions and Decimals on a Number Line	338 - 341	4.NF.5 4.NF.6	Module 6 Decimal Fractions	<p>4.NF.5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.2 For example, express $\frac{3}{10}$ as $\frac{30}{100}$, and add $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$.</p> <p>4.NF.6 Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62</p>	

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						as $\frac{62}{100}$; describe a length as 0.62 meters; locate 0.62 on a number line diagram.	
1 Day	13	Topic 13-6 Equivalent Fractions and Decimals	342 – 345	4.NF.6 4.NF.5	Module 6 Decimal Fractions	<p>4.NF.6 Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as $\frac{62}{100}$; describe a length as 0.62 meters; locate 0.62 on a number line diagram.</p> <p>4.NF.5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. For example, express $\frac{3}{10}$ as $\frac{30}{100}$, and add $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$.</p>	
1 Day	13	Topic 13-7 Decimal Place Value	346 – 347	4.NF.7	Module 6 Decimal Fractions	<p>4.NF.7 Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid</p>	

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						only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.	
1 Day	13	Topic 13-8 Comparing and Ordering Fractions COMPARE	348 – 351	4.NF.7	Module 6 Decimal Fractions	4.NF.7 Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.	Compare only
1 Day	13	Topic 13-8 Compare and Ordering Fractions ORDER	348 – 351	4.NF.7	Module 6 Decimal Fractions	4.NF.7 Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and	Order only

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						justify the conclusions, e.g., by using a visual model.	
1 Day	13	Topic 13-9 Using Money to Understand Decimals	353 – 353	4.MD.2 4.NF.7	<p>Module 5 Fraction Equivalence, Ordering, and Operations.</p> <p>Module 6 Decimal Fractions.</p>	<p>4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</p> <p>4.NF.7 Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the</p>	<p>May want to do 15-3 also. Extra money practice. Use extra supplements. Money.</p>

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						<p>symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.</p>	
1 Day	13	<p>Topic 13-10 Problem Solving: Draw a Picture</p>	354 – 355	<p>4.NF.6 4.MD.1 4.MD.2</p>	<p>Module 6 Decimal Fractions</p> <p>Module 2 Unit Conver- sions and Problem Solving with Metric Measure- ment</p>	<p>4.NF.6 Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as $62/100$; describe a length as 0.62 meters; locate 0.62 on a number line diagram. Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.</p> <p>4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For</p>	Do pages 354 and 355 together.

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						<p>example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...</p> <p>4.MD.2</p> <p>Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</p>	
Homework	13	Topic 13 Pre-Test	360 – 361				

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1 Day	13	Correct together: Topic 13 Pre-Test Assign: Topic 13 Test					Assign Topic Test as individual work. Test Masters
		*Recommendation-	Assign	Daily Common Core	As	Independent Practice	
1 Day	14	Topic 14-1 Using Customary Units of Length	366 – 367	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	

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1 Day	14	Topic 14-2 Customary Units of Capacity	368 – 369	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	Use models
1 Day	14	Topic 14-3 Units of Weight	370 – 371	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record	

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						measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	
1 Day	14	Topic 14-4 Changing Customary Units	372 – 375	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	Do pages 372-375 together.

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1 Day	14	Topic 14-5 Problem Solving: Writing to Explain	376 – 377	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	Do pages 376-377 together.
1 Day	14	Topic 14-6 Using Metric Units of Length	378 – 379	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record	

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						measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	
1 Day	14	Topic 14-7 Metric Units of Capacity	380 – 381	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	

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1 Day	14	Topic 14-8 Units of Mass	382 – 383	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	
1 Day	14	Topics 14-9 Changing Metric Units	384 – 387	4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record	Do pages 384-387 together.

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						measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	
1 Day	14	Topic 14-10 Units of Time	388 - 389	4.MD.1 4.MD.2	Module 2 Unit Conversion and Problem Solving with Metric Measure ment	4.MD.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...	

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						<p>4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</p>	
1 Day	14	Topic 14-11 Problem Solving: Work Backward	390 – 391	4.MD.2 4.MD.1	Module 2 Unit Conversion and Problem Solving with Metric Measurement	<p>4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a</p>	Do pages 390 and 390 together.

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						<p>smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</p> <p>4.MD.1. Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...</p>	
Homework	14	Topic 14 Pre-Test	396 – 397				

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1 Day	14	Correct together: Topic 14 Pre-Test Assign: Topic 14 Test					Assign Topic Test as individual work. Test Masters.
		*Recommendations -	Assign	Daily Common Core	As	Independent Practice	
2 – 4 Days	15	Topic 15-1 Solving Perimeter and Area Problems	403 – 403	4.MD.3	Module 3 Multi-Digit Multiplication and Division	4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical 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.	Keep Perimeter and Area separate. Use supplements.
Optional	15	Topic 15-2 Solving Measurement Problems	404 – 405	4.MD.2	Module 6 Decimal Fractions	4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing	

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						measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	
1 Day	15	Topic 15-3 Solving Problems Involving Money	406 – 407	4.MD.2	Module 6 Decimal Fractions	4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	*Could do this lesson when doing Topic 13-9.
1 Day	15	Lesson 15-4 Solving Problems Involving Line Plots	408 – 409	4.MD.4	Module 6 Decimal Fractions	4.MD.4 Make a line plot to display a data set of measurements in fractions	

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						of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving 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.	
Optional	15	Lesson 15-5 Solve a Simpler Problem and Make a Table	410 – 413	4.MD.2	Module 6 Decimal Fractions	4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	

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Optional	15	Assign: Topic 15 Test					Assign Topic Test as individual work. Test Masters.
		*Recommendations -	Assign	Daily Common Core	As	Independent Practice.	
1 Day	16	Lesson 16-1 Points, Lines and Planes	422 – 423	4.G.1	Module 4 Angle Measure and Plane Figures	4.G.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	
2 Days	16	Lesson 16-2 Line Segments, Rays, and Angles	424 – 425	4.G.1	Module 4 Angle Measure and Plane Figures	4.G.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	1 Day: Line Segments and Rays 1 Day: Angles
1 Day	16	Lesson 16-3 Understanding Angles and Unit Angles	426 – 427	4.MD.5.a 4.MD.5 4.G.1	Module 4 Angle Measure and Plane Figures	4.MD.5.a An angle is measured with reference to a 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	Do pages 426 and 427 together.

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						<p>through $\frac{1}{360}$ of a circle is called a “one-degree angle,” and can be used to measure angles.</p> <p>4.MD.5 Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement:</p> <p>4.G.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.</p>	
1 Day	16	Lesson 16-4 Measuring with Unit Angles	428 – 429	4.MD.5.b	Module 4 Angle Measure and Plane Figures	4.MD.5.b An angle that turns through n one-degree angles is said to have an angle measure of n degrees.	Do pages 428 and 429 together.
2 Days	16	Lesson 16-5 Measuring Angles	430 – 431	4.MD.6 4.MD.5.a 4.MD.5.b 4.G.1	Module 4 Angle Measure and Plane Figures	4.MD.6 Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure 4.MD.5.a An angle is measured with reference to a circle with	Do pages 430 and 431 together.

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						<p>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.</p> <p>An angle that turns through $\frac{1}{360}$ of a circle is called a “one-degree angle,” and can be used to measure angles.</p> <p>4.MD.5.b An angle that turns through n one-degree angles is said to have an angle measure of n degrees.</p> <p>4.G.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.</p>	
1 Day	16	Lesson 16-6 Adding and Subtracting Angle Measures	432 – 433	4.MD.7 4.MD.5.a 4.MD.5.b 4.MD.6	Module 4 Angle Measure and Plane Figures	4.MD.7 Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and	Do pages 432 and 433 together.

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						<p>subtraction problems to find 28 unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.</p> <p>4.MD.5.a An angle is measured with reference to a 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 $\frac{1}{360}$ of a circle is called a “one-degree angle,” and can be used to measure angles.</p> <p>4.MD.5.b An angle that turns through n one-degree angles is said to have an angle measure of n degrees.</p> <p>4.MD.6 Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure</p>	
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1 Day	16	Lesson 16-7 Polygons	434 – 435	4.G.2	Module 4 Angle Measure and Plane Figures	4.G.2 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.	
2 Days	16	Lesson 16-8 Triangles	436 – 437	4.G.2	Module 4 Angle Measure and Plane Figures	4.G.2 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.	1 Day sides 1 Day angles *use supplements
1 Day	16	Lesson 16-9 Quadrilaterals	438 – 439	4.G.2	Module 4 Angle Measure and Plane Figures	4.G.2 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a	

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						specified size. Recognize right triangles as a category, and identify right triangles.	
1 Day	16	Lesson 16-10 Line Symmetry	440 – 441	4.G.3	Module 4 Angle Measure and Plane Figures	4.G.3 Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	
Optional	16	Lesson 16-11 Make and Test Generalizations	442 – 443	4.G.2 4.OA.5	Module 4 Angle Measure and Plane Figures	4.G.2 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. 4.OA.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.	Do pages 442 and 443 together.

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						For example, 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	
Homework	16	Topic 16 Pre-Test	448 – 449				
1 Day	16	Correct together: Topic 16 Pre-Test Assign: Topic 16 Test					Assign Topic Test As individual work. Test Masters