

Grade 4 Student Book Pages and CMT (4th Gen) Alignment: *Growing with Mathematics* (Aug. 3, 2005)

Topics 1 – 17: Grade 4 (4th Generation) CMT

Topics 18 – 24: Grade 5 (4th Generation) CMT

Workbook Pages	Not on CMT	Grade 4 CMT Obj.	Grade 5 CMT Obj.	Grades 6-8 CMT Obj.
TOPIC 1: EXPLORING MATHEMATICS				
2 Counting On and Back		4A Order numbers less than 10,000		
4 Counting On and Back		4A Order numbers less than 10,000		
6 Adding 1-Digit and 2-Digit Numbers		7A Add 2- and 3-digit numbers		
7 Adding Amounts (3- and 4-Digit Numbers – Dollars and Cents)		Almost 25A Solve extended numerical problems		
8 Working with Parallel Lines		17A Describe geometric shapes	17A – Classify geometric shapes	
9 Adding 1-Digit and 2-Digit Numbers		7A Add 2- and 3-digit numbers		
10 Read & Create Bar Graphs		19A Identify correct information in bar graphs		
		19B Create bar graphs		
TOPIC 2: INVESTIGATING LENGTH				
12 Testing Triangles		17A/B Draw and identify 2-D shapes		
14 Relating Distances		7A Add 3-digit numbers	16D Convert measures of length	
			7C Multiply 3 digits by 1 digit	
16 Read & Create Bar Graphs		19A Identify correct information in bar graphs		
		19B Create bar graphs		

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18 Using Millimeters		16C Identify appropriate metric units	16D Convert measures of length	Gr 6 (9D) Explain how the solution to a word problem was determined
20 Relating Distances		7A Add 3-digit numbers	16D Convert measures of length	
			7C Multiply 3 digits by 1 digit	
21 - 22 Read Numbers on a Number Line		4D Identify 2- and 3-digit whole numbers on a number line		
TOPIC 3: USING ADDITION AND SUBTRACTION				
24 Use Addition, Subtraction, Multiplication, & Division		5B Identify the appropriate number sentence to solve a problem		
		5C. Write a story problem (add, subtract, multiply)	5B Write a division story problem	
25 Investigating Distances		7A Add 2- and 3-digit numbers		
26 Comparing Coastlines		7A Add and subtract 2- and 3-digit numbers	7A Add and subtract 4-digit numbers	
27 Add & Subtract 3-Digit Numbers		7A Add and subtract 2- and 3-digit numbers		

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28 Addition and Subtraction Problems			7A Add and subtract 4-digit numbers	
			4C Describe magnitude of 4-digit numbers 4E Order numbers in context (4-digit) 9B Solve 2-stop problems	
30 and 32 Subtract 3-Digit Numbers		7A Subtract 2- and 3-digit numbers		
34 Addition and Subtraction Problems			7B Subtract 4-digit numbers	
			9B Solve 2-step problems	
TOPIC 4: INVESTIGATING 5-DIGIT NUMBERS				
35 Use a Number Expander			1B Identify alternative forms of expressing whole numbers < 10,000 using expanded notation	
36 Create 4-digit Numbers			1D Use place value concepts	
38 Reading and Writing 4-Digit Numbers	X			
39 Writing about Thousands	X			Gr 6 (1A/1B): Identify alternative forms of expressing whole numbers < 10,000 using expanded notation and regrouping

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41 Using a Number Expander	X			Gr 6 (1A/1B): Identify alternative forms of expressing whole numbers < 10,000 using expanded notation and regrouping
42 Completing a Number Expander				Gr 6 (1C) Use place value concepts to identify value of digits in numbers
43 Writing 5-Digit Numbers		24A Solve counting problems (combinations and permutations)		
44 and 45 Comparing 5-Digit Numbers				Gr 6 (4C) Describe magnitude of whole numbers up to 6 digits
47 Increasing and Decreasing Numbers		1A Solve problems involving 10 and 100 more and less	1A Solve problems involving 100 and 1000 more and less	Gr 6 (1A) Solve problems involving 100, 1000, and 10,000 more and less
48 Increasing and Decreasing Numbers		1A Solve problems involving 10 and 100 more and less	1A Solve problems involving 100 and 1000 more and less	Gr 6 (1A) Solve problems involving 100, 1000, and 10,000 more and less

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TOPIC 5: INVESTIGATING SHAPES AND ANGLES				
50 Investigation Symmetry			18A Identify lines of symmetry 18B Draw lines of symmetry	
53 Using a Map	X			
55 Creating and Investigating Triangles		17A Identify 2-D shapes, including number of sides and angles 17B Draw, describe and identify 2-D shapes		
56 Investigating and Creating Angles		17A Identify 2-D shapes, including number of angles		Gr 6 (15A) Estimate angle measures
57 Identifying Shapes		17A Identify 2-D shapes, including number of sides and angles 17B Draw, describe and identify 2-D shapes		
58 Identifying Angles		17A Identify 2-D shapes, including number of sides and angles		

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TOPIC 6: FINDING FRACTIONS				
60 Using Fractions	Solve 1-step fraction story problems			
62 and 63 Finding a Fraction of an Amount				Gr 6 (8B) Multiply whole numbers by fractions
64 Solving Fraction Problems	Solve 1-step fraction story problems			Gr 6 (9B) Solve 2-step story problems involving fractions without extraneous information
66 Creating Fractional Parts		2C Label and/or shade fractional parts of regions		
68 and 69 Finding Equivalent Fractions		3A Relate equivalent fractions to pictorial representations (regions)		
70 Creating Equivalent Fractions		3A Relate equivalent fractions to pictorial representations (sets)		

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Workbook Pages	Not on CMT	Grade 4 CMT Obj.	Grade 5 CMT Obj.	Grades 6-8 CMT Obj.
<p>TOPIC 7: MULTIPLYING BY 1-DIGIT NUMBERS</p> <p>* Multiplying 1-digit numbers by multiples of 10 is an important transition between Grade 4 (6A – Find the missing product) and Grade 5 (7B – Multiply multiples of 10 by 10)</p>				
72 Creating Multiplication Arrays	Use a known multiplication fact to compute a 2 nd fact	5A Identify members of multiplication and division fact families from arrays		
74 and 75 Practicing Multiplication Number Facts		6A Find the missing product in a multiplication equation where one factor is 2, 3, 4, 5 and 10		
76 Identifying Numbers		24A Solve logic problems involving the organization of data [Solve riddles]		
78 Writing and Identifying Factors and Multiples	Identify factors and multiples	6A Find the missing product in a multiplication equation where one factor is 2, 3, 4, 5, or 10		
		6B Find the missing factor in a division equation where one factor is 2, 3, 4, 5 and 10		

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Workbook Pages	Not on CMT	Grade 4 CMT Obj.	Grade 5 CMT Obj.	Grades 6-8 CMT Obj.
<p>TOPIC 7 [Continued]: MULTIPLYING BY 1-DIGIT NUMBERS</p> <p>* Multiplying 1-digit numbers by multiples of 10 is an important transition between Grade 4 (6A – Find the missing product) and Grade 5 (7B – Multiply multiples of 10 by 10)</p>				
79 and 81 Using Number Facts to Multiply Tens	* Multiple 1-digit numbers by multiples of 10	6A Find the missing product in a multiplication equation where one factor is 2, 3, 4, 5, or 10	Almost 7B: Multiply whole numbers by 10	
		7B Multiple 2-digit numbers by 1-digit numbers		
83 Using Arrays to Find Products	* Multiple 1-digit numbers by multiples of 10 Use the Distributive Property to multiply 2 digits by 1 digit	5A Identify members of multiplication and division fact families from arrays	Almost 7B: Multiply whole numbers by 10	
84 Multiplying Costs		5C Write a multiplication story problem. Use 1-digit numbers.	7C Multiply money amounts less than \$10.00 by 1 digit	
85 Multiplying Tens	* Multiple 1-digit numbers by multiples of 10	7B Multiple 2-digit numbers by 1-digit numbers		

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Workbook Pages	Not on CMT	Grade 4 CMT Obj.	Grade 5 CMT Obj.	Grades 6-8 CMT Obj.
86 Encyclopedia Sale		9A/B Solve 1-step story problems involving multiplication using 1- and 2-digit numbers 4B Describe magnitude of 2- and 3-digit numbers 4D Identify points representing 3-digit numbers on a number line and vice versa Almost 25A: Solve extended numerical problems		
87 Finding Multiplication Patterns	Multiply 2-digit numbers by 2-digit numbers	6A Find the missing product in a multiplication equation where one factor is 2, 3, 4, 5, or 10 22B State rules for given patterns using whole numbers		
88 Multiplying 2-Digit Numbers	* Multiple 1-digit numbers by multiples of 10 Use the Distributive Property to multiply 2 digits by 1 digit	5A Identify members of multiplication and division fact families from arrays		

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TOPIC 8: WORKING WITH TIME				
89 Using a Calendar		14A Solve problems involving calendars		
91 Calculating time	Gr 3 CMT: Tell time to the nearest quarter hour	14A Solve problems involving time		
93 Creating a Schedule		14A Solve problems involving elapsed time (minutes and hours)		
		25A: Solve extended statistical problems		
94 Using Multiplication		14B Solve problems involving conversions of measures of time		Gr 6 (9D) Explain how the solution to a word problem was determined
		9A/B Solve 1-step story problems involving multiplication using 1- and 2-digit numbers		
95 Relating Units of Time		14B Solve problems involving conversions of measures of time		
98 Using a Timetable		14A Solve problems involving time and elapsed time (minutes and hours)	9B Solve two-step problems	
99 Calculating Time Differences		14A Solve problems involving elapsed time (minutes and hours)		

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TOPIC 9: EXPLORING SHAPES AND PERIMETERS				
100 Prism Patterns				Gr 8 (17B) Classify 3-D geometric shapes and figures
102 Finding Perimeter			16B Determine perimeters	
104 Estimating and Finding Perimeter		15A Estimate lengths by comparing	16B Measure and determine perimeters	
		4B Describe magnitude of 2- and 3-digit whole numbers		
		16A Measure lengths to the nearest inch, centimeter or half-inch		
106 Finding Perimeter		17B Draw 2-D geometric shapes (on grid paper)	16B Determine perimeters	
107 Calculating Perimeter			16B Measure and determine perimeters	
108 Calculating the Perimeter of Polygons			16B Determine perimeters	
109 Finding and Comparing Perimeter	Solve 2-step problems involving perimeter			

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TOPIC 10: WORKING WITH FRACTIONS				
111 Using Fractions	Solve 1-step story problems involving fractions			Gr 6 (9B) Solve 2-step story problems involving fractions without extraneous information
113 and 114 Adding and Subtracting Fractions	Add and subtract fractions with reasonable and appropriate fractions	8A Add and subtract fractions with like denominators	8A Add and subtract mixed numbers with like denominators	Gr 6 (8A) Add and subtraction fractions and mixed numbers with reasonable and appropriate denominators
115 Solving Fraction Problems	Solve 1-step story problems involving fractions			Gr 6 (9B) Solve 2-step story problems involving fractions without extraneous information
117 Fractions on a Number Line		4E Locate points representing fractions (halves, thirds, fourths) on a number line and vice versa [Open-Ended]		
118 Solving Fraction Problems	Solve 1-step story problems involving fractions			Gr 6 (9B) Solve 2-step story problems involving fractions without extraneous information

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Workbook Pages	Not on CMT	Grade 4 CMT Obj.	Grade 5 CMT Obj.	Grades 6-8 CMT Obj
119 Using Number Lines Greater Than 1				Gr 7 (4F) Locate points including mixed numbers on number lines and scales
121 and 123 Adding and Subtracting Fractions	Add and subtract fractions with reasonable and appropriate fractions	8A Add and subtract fractions with like denominators		
124 Reading and Writing Hundredths and 125 Equivalent Common Fractions and Decimal Fractions				Gr 6 (3B) Rename improper fractions as equivalent decimals and vice versa Gr 7 (3A) Rename fractions as equivalent decimals and vice versa
126 Decimals on a Number Line		4E Locate decimals (tenths) on a number line and vice versa		
TOPIC 11: LINKING MULTIPLICATION AND DIVISION				
127 Problems to Share		9A/B Solve 1-step story problems involving addition, subtraction and multiplication	9A Solve 1-step story problems involving all 4 operations	

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128 Sharing Problems			9A Solve 1-step story problems involving division	
129 and 130 Relating Multiplication and Division		5A Identify members of multiplication and division fact families from arrays	6A Multiply and divide facts	
		6A Find the missing product in a multiplication equation		
		6B Find the missing factor in a division equation		
131 and 133 Multiplication Machines		22A Identify the missing terms or identify rules in a number pattern [function machines]		
		6A Find the missing product in a multiplication equation		
		6B Find the missing factor in a division equation		
134 Super Shirt Factory Sale		7B Divide 2-digit whole numbers by 1-digit numbers		
135 Exploring Division Patterns		6B Find the missing factor in a division equation		
137 Grab the Cubes		7B Divide 2-digit whole numbers by 1-digit numbers		Grade 7 (9C) Solve multi-step problems including means.
139 Exploring Division Patterns		6B Find the missing factor in a division equation		

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Workbook Pages	Not on CMT	Grade 4 CMT Obj.	Grade 5 CMT Obj.	Grades 6-8 CMT Obj
141 and 142 Solving Division Problems		6B Find the missing factor in a division equation	7C Divide 3-digit whole numbers by 1-digit numbers	
TOPIC 12: INVESTIGATING LARGE NUMBERS				
143 Reading Numbers on Number Line		4A Order whole numbers less than 10,000	4A Order whole numbers less than 100,000	
		4G Locate points (2- and 3-digit numbers on a number line and vice versa	4G Locate points (whole numbers) on number lines and scales	
145 Finding the New Amount		1A Solve problems involving 10 and 100 more or less than a given number	1A Solve problems involving 100 and 1000 more or less than a given number	
147 and 148 Calculating Sums and Differences		1D Use place value concepts to identify and compare the magnitude and value of digits in 2- and 3-digit numbers [The value of ___ would change by ...]	1D Use place value concepts to identify and compare the magnitude and value of digits in numbers [The value of ___ would change by ...]	
149 Comparing Populations in Ohio		4A Order whole numbers less than 10,000	4A Order whole numbers less than 100,000	
		4B Describe magnitude of 2- and 3-digit whole numbers	4C Describe magnitude of whole numbers < 100,000	
151 Using Data		19A Identify correct information from tables and charts		

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Workbook Pages	Not on CMT	Grade 4 CMT Obj.	Grade 5 CMT Obj.	Grades 6-8 CMT Obj
153 and 154 Ordering 6-Digit Numbers		4A Order whole numbers less than 10,000 [Up to 4 digits]	4A Order whole numbers less than 100,000 [Up to 5 digits]	Gr 6 (4A) Order whole numbers up to 6 digits
				Gr 7 (4A) Order whole numbers
155 Working with One Million		25A Solve3 extended numerical problems		
156 Adding On to Make One Million		Strand 1 – General place value concepts (Obj 1A, 1B, 1C, 1D)		
TOPIC 13: MANIPULATING MONEY				
158 Money Combinations		24A Solve counting problems involving the organization of data (combinations and permutations)		Gr 7 (24B) Draw logical conclusions from data including combinations and permutations
159 Making Change and 160 Solving Problems Involving Money [Good pages in which to include Objective 11a]		24A Solve counting problems involving the organization of data (combinations and permutations)		
		11A Identify a reasonable estimate to a problem, including estimating change		

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163 Supermarket Specials	Mental Math – multiply with compatible numbers		7C Multiply 3-digit numbers (money amounts) by 1-digit numbers	
TOPIC 14: MULTIPLYING BY TENS				
165 and 166 Practicing Multiplication	Multiply multiples of 10 by multiplies of 10	6A Find the missing product in a multiplication equation	7B Multiply and divide multiples of 10 and 100 by 10 and 100	
	Multiply a multiple of 10 by a 1-digit number			
167 Multiplication Machines	Multiply 2-digit numbers by 10, 100, 1000	22A Identify the missing terms or identify rules in a number pattern [function machines]		

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TOPIC 14: MULTIPLYING BY TENS (Continued)				
169 and 170 Multiplying 2-Digit Numbers	Multiple 1-digit numbers by multiples of 10	7B Multiply and divide 2-digit whole numbers by 1-digit numbers		
	Use the Distributive Property to multiply 2 digits by 1 digit			
171 Finding Costs Good page in which to use Obj 11a - Identify a reasonable estimate to a problem		4D Identify points representing 3-digit numbers on a number line and vice versa		
		4B Describe magnitude of 2- and 3-digit whole numbers		
		9A/B Solve 1-step story problems involving addition and subtraction and money amounts 11A Identify a reasonable estimate to a problem, including making change		

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173 and 174 Multiplying by Tens	Multiply 2-digit numbers by multiplies of 10	7B Multiply and divide 2-digit whole numbers by 1 digit		
175 Using a Time Saver		Almost 25A: Solve an extended numerical problem		
177 Finding Square Numbers	Multiply 2-digit numbers by 2-digit numbers	22A Extend or complete a number pattern – maybe more of a 5 th grade problem with square number patterns		
179 and 180 Calculating the Number of Squares		5A Identify members of multiplication and division fact families from arrays (factors of 2, 3, 43, 5 and 10)		
TOPIC 15: EXPLORING POLYGONS AND THE CIRCLE				
181 Finding Similar Shapes	<p>A dilation (Enlargement) is a transformation that produces an image that is the same shape as the original, but is a different size. The description of a dilation includes the scale factor and the center of the dilation. If the scale factor is greater than 1, the image is an enlargement. If the scale factor is between 0 and 1, the image is a reduction.]</p> <p>[Scale Factor: A ratio that compares the sizes of the parts of the scale drawing of an object with the actual sizes of the corresponding parts of the object</p> <p>EXAMPLE: If the size of the scale drawing is $\frac{1}{2}$ of the size of the actual object, then the scale factor is $\frac{1}{2}$</p> <p>EXAMPLE: If the scale drawing is 10 times the size of the actual object, the scale factor is 10</p>			Gr 6 (18C) Identify similar figures
				Gr 7 (18D) Identify and explain congruent and similar figures
184 Making an Enlargement				Gr 6 (18C) Identify similar figures

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185 and 186 Finding Congruent Shapes			18C Identify congruent shapes	
188 Making Tessellation Designs	X Tessellations are geometry in patterns			
189 Creating Tessellations	X			
191 and 192 Identifying Parts of Shapes		17A Identify , classify, and/or describe 2-D geometric shapes		
193 Working with Circles				Gr 7 (17A) Identify, classify and describe 2-D geometric shapes and figures [and terms related to parts of circles]
194 Drawing Diagonals	x	This is a stretch: Obj 24A – Sort shapes by number of diagonals		

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TOPIC 16: INVESTIGATING DECIMAL FRACTIONS				
195 and 196 Relating Common and Decimal Fractions				Gr 6 (3B) Rename improper fractions as equivalent decimals and vice versa
				Gr 7 (3A) Rename fractions as equivalent decimals and vice versa
198 Writing Fractions as Decimals		4E Locate points representing fractions (halves, thirds, fourths) and decimals (tenths) on a number line and vice versa	4B Order fractions 4B Order decimals	Gr 6 (3B) Rename improper fractions as equivalent decimals and vice versa
		4D Identify points representing fractions (halves, thirds, fourths) and decimals (tenths) on a number line and vice versa		Gr 7 (3A) Rename fractions as equivalent decimals and vice versa
199 Relating Decimals and Fractions				Gr 6 (3B) Rename mixed numbers as equivalent decimals and vice versa
200 Writing Decimals Fractions in Words	X	4B Describe magnitude of decimals (tenths)		Gr 7 (3A) Rename fractions as equivalent decimals and vice versa

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201 Writing Decimals as Fractions 202 and 203 Writing Tenths, Hundredths, and Thousandths as Decimals				Gr 7 (3A) Rename fractions as equivalent decimals and vice versa
205 and 206 Increasing and Decreasing Decimals				Gr 6 (1A) Solve problems involving 0.1 more or less than a given number Gr 7 (1A) Solve problems involving 0.1 and 0.01 more or less than a given number
208 Ordering Decimals		22A Identify the missing terms in a number pattern [and in a number matrix]	4B Order decimals	
209 Writing Amounts in Different Ways				Gr 7 (3A) Rename fractions as equivalent decimals and vice versa
211 and 212 Adding and Subtracting Decimals				Gr 6 (7C) Add and subtract decimals
TOPIC 17: DEALING WITH DATA AND PROBABILITY				
213 Making Predictions 214 Likely – Unlikely Weather 215 Likely – Unlikely Weather		21A Identify correct solutions to problems involving elementary notions of probability		
217 Using a Pictograph		19A Identify correct information from pictographs		

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218 Designing a Spinner 219 Making Spinners		21A Identify correct solutions to problems involving elementary notions of probability		
221 Zoo Maps 222 Orchard and Garden Map			18D Locate point on grids	Gr 6 (19D) Locate and draw points on grids
224 Reading a Line Graph 225 Annual Rainfall 226 Graphing Plant Growth		19A Identify correct information from tables, bar graphs, pictographs and charts		Gr 6 (19A) Identify correct information from line graphs
228 Reading Pie Graphs		21A Identify correct solutions to problems involving elementary notions of probability		19A Identify correct information from tables, graphs, and charts
		Grade 4 CMT Vocabulary List has "Circle Graph" listed		
229 Working with Bar Graphs 230 Using Bar Graphs		19A Identify correct information from tables, bar graphs, pictographs and charts		
		19B Create bar graphs and pictographs from data in tables and charts		

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TOPIC 18: MULTIPLYING BY 2-DIGIT NUMBERS			
231 Identifying Multiples	X	6A Multiply and divide facts	
233 Counting Bricks		6A Multiply and divide facts	Gr 8 (15a) Estimate volumes Gr 6 (16A) Measure and determine volume
234 and 235 Multiplying by 1-Digit Numbers		6A Multiply and divide facts 7C Multiply and divide 2- and 3-digit numbers by 1-digit numbers	
237 and 238 Modeling Multiplication	Multiply 2 digits by 2 digits		
240 Using Arrays to Find Products	Use the distributive property to multiply 2 digits by 2 digits		
241 Multiplying 23 242 Multiplying 27	Use the distributive property to multiply 2 digits by 2 digits		
244 Finding Products in Different Ways	Multiply 2 digits by 2 digits		

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TOPIC 19: INVESTIGATING AREA			
247 Estimating Area 248 Dinosaur Club Patch		15A Estimate lengths	
249 and 250 Practicing Multiplication	Multiply 2 digits by 2 digits		
251 Finding the Area of Triangle		16B Measure and determine areas	
		16A Measure lengths to the nearest half-centimeter (and quarter inch)	
253 Painting a Room		16B Measure and determine areas	
		16A Measure lengths to the nearest half-centimeter (and quarter inch)	
		9B Solve 2-step story problems involving whole numbers with/without extraneous information	
255 Calculating Area 257 Using Multiplication to Find Area 258 Using Multiplication to Find Area 259 Solving Problems with Area		16B Measure and determine area	
261 and 262 Reviewing Division		7C Divide 2-digit numbers by 1-digit numbers	
TOPIC 20: DIVIDING LARGE NUMBERS			
263 Estimating with Division		Obj. 11A Estimate a reasonable solution to a problem, including estimating change.	

Grade 4 Student Book Pages and CMT (4th Gen) Alignment: *Growing with Mathematics* (Aug. 3, 2005)

Topics 1 – 17: Grade 4 (4th Generation) CMT

Topics 18 – 24: Grade 5 (4th Generation) CMT

Workbook Pages	Not on CMT	Grade 5 CMT Obj.	Grades 6-8 CMT Obj
265 and 266 Modeling Division		7C Divide 3-digit numbers by 1-digit numbers	
267 Solving Division Problems		7C Divide 2- and 3-digit numbers by 1-digit numbers	
		9A Solve one-step story problems using all operations involving whole numbers and money amounts with and without extraneous information	
268 and 269 Practicing Division		7C Divide 3-digit numbers by 1-digit numbers	
270 Bulk Buy Specials		9A Solve one-step story problems using all operations involving whole numbers and money amounts with and without extraneous information	
		9B Solve two-step problems involving whole numbers with/without extraneous information	
271 Choosing Divisors	Mental Math		
273 Dividing by	Divide 3- and 4-digit numbers by 10		
275 Finding the Mean			Gr 6 (20B) Solve problems involving means, medians, and modes of sets of data
			Gr 7 (9C) Solve multi-step problems, including the means

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Topics 1 – 17: Grade 4 (4th Generation) CMT
 Topics 18 – 24: Grade 5 (4th Generation) CMT

Workbook Pages	Not on CMT	Grade 5 CMT Obj.	Grades 6 – 8 CMT Obj.
TOPIC 21: USING DECIMAL FRACTIONS			
278 and 279 Modeling Decimal Numbers		Grade 4 (2A) Relate decimals to pictorial representations and vice versa	
		Grade 5 (2A) Relate decimals (0.01 – 2.99) to pictorial representations and vice versa	
280 Working with Decimals and Fractions	Estimate solutions to computation (adding and subtracting) with decimals and fractions	Grade 5 (2A) Relate decimals (0.01 – 2.99) to pictorial representations and vice versa	
		11A Identify a reasonable estimate to a problem	
281 Solving Problems with Decimals and Fractions		9A Solve one-step story problems using all 4 operations involving money amounts with and without extraneous information	Gr 6 (9A) Solve one-step story problem involving decimals with and without extraneous information
		16B Determine perimeters	Gr 8 (9A) Solve one-step story problems involving fractions with/without extraneous information
		4G Locate points (fractions) on number lines and scales	Gr 7 (4F) Locate points including mixed numbers on number lines and scales equivalent decimals and vice versa

Grade 4 Student Book Pages and CMT (4th Gen) Alignment: *Growing with Mathematics* (Aug. 3, 2005)

Topics 1 – 17: Grade 4 (4th Generation) CMT

Topics 18 – 24: Grade 5 (4th Generation) CMT

Workbook Pages	Not on CMT	Grade 5 CMT Obj.	Grades 6 – 8 CMT Obj
TOPIC 21: USING DECIMAL FRACTIONS (Continued)			
282 and 283 Relating Decimal Fractions to Common Fractions		2A Relate decimals (0.01 – 2.99) to pictorial representations and vice versa	Gr 6 (3B) Rename mixed numbers as equivalent decimals and vice versa
			Gr 7 (3A) Rename fractions as equivalent decimals and vice versa
285 and 286 Reading Decimal Numbers on a Number Line		4G Locate decimals on number lines and scales	
287 Using Decimal Fractions	Compare magnitude of fractions vs decimals	4B Describe magnitude of decimals (tenths) 4B Describe magnitude of fractions	Gr 6 (5B) Write story problems from equations involving fractions and decimals using all operations
			Gr 6 (2B) Identify and/or shade decimals (tenths and hundredths) in pictures
			Gr 6 (9D) Explain how the solution to a problem was determined
288 Finding Pairs		7A (A little stretch) – Add and subtract money amounts less than \$100.00	Gr 6 (7A) Add and subtract decimals
			Gr 6 (3B) Rename mixed numbers as equivalent decimals and vice versa
290 Stock Up Week at the Grocery Store		7C Multiply and divided money amounts less than \$10.00 by 1-digit numbers	Gr 7 (7B) Divide decimals by 1-digit numbers
TOPIC 22: EXPLORING VOLUME AND CAPACITY			
292 and 294 Exploring Volume 297 Finding Volume			Gr 6 (16A) Measure and determine volume. Explain or show how the solution was determined
299 Relating Volume and Capacity			Gr 6 (16D) Solve problems involving conversions of measures of capacity

Grade 4 Student Book Pages and CMT (4th Gen) Alignment: *Growing with Mathematics* (Aug. 3, 2005)

Topics 1 – 17: Grade 4 (4th Generation) CMT

Topics 18 – 24: Grade 5 (4th Generation) CMT

Workbook Pages	Not on CMT	Grade 5 CMT Obj.	Grades 6 – 8 CMT Obj.
TOPIC 23 WORKING WITH WEIGHT			
300 Relating Volume and Weight	Relate volume to weight		
303 Working with Quantities		9A Solve one-step story problems involving whole numbers, decimals, and money amounts with or without extraneous information	Gr 6 (16D) Solve problems involving conversions of measures of capacity and mass
			Gr 6 (2B) Solve two-step story problems involving fractions with or without extraneous information
TOPIC 24: THINKING VISUALLY			
306 Looking for Patterns		22B Extend or complete patterns and state rules for given patterns	Gr 6 (17A) Classify 3-D geometric shapes and figures
308 Investigating Paths *		24 A Solve logic, counting and classification problems involving the organization of data	
		24B Sort or classify objects, and draw logical conclusions from data, including Venn diagrams and transitive reasoning problems	
312 Sliding Shapes		18C Identify congruent figures	Gr 7 (18G) Draw geometric transformations (reflections and rotations) [This workbook page requires drawing translations (slides)]

* Paths found on Workbook Page 308 are part of Discrete Math but are not tested on the CMT.