



# Math Teachers Press, Inc.

4850 Park Glen Road, Minneapolis, MN 55416  
 phone (800) 852-2435 fax (952) 546-7502

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## NORTH CAROLINA COURSE OF STUDY CORRELATED TO MOVING WITH MATH® FOUNDATIONS-BY-TOPIC GRADE 4

	B1 Number Sense, Addition & Subtraction Student Book Skill Builders (SB)	B2 Multiplication & Division Facts Student Book Skill Builders (SB)	B3 Multiplication & Division - Problem Solving Student Book Skill Builders (SB)	B4 Fractions, Decimals, Geometry & Measurement Student Book Skill Builders (SB)
<b>STRANDS: NUMBER AND OPERATIONS, MEASUREMENT, GEOMETRY, DATA ANALYSIS AND PROBABILITY, ALGEBRA</b>				
<b>Competency Goal 1: The learner will read, write model, and compute with non-negative rational numbers.</b>				
<b>1.01</b> Develop number sense for rational numbers 0.01 through 99,999.	20, 21 <b>SB:</b> 4-1, 4-2, 5-1, 5- 2			
<b>a.</b> Connect model, number word, and number using a variety of representations.	2, 3, 15, 17, 18 <b>SB:</b> 6-1, 6-2, 6-4			23, 24 <b>SB:</b> 47-12
<b>b.</b> Build understanding of place value (hundredths through ten thousands).	5, 6, 16, 19 <b>SB:</b> 2-2, 2-3, 2-4			4, 13, 28 <b>SB:</b> 32-1, 32-2, 32- 4, 47-15
<b>c.</b> Compare and order rational numbers.	7			16 <b>SB:</b> 30-7
<b>d.</b> Make estimates of rational numbers in appropriate situations.				
<b>1.02</b> Develop fluency with multiplication and division:				

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<b>a.</b>	Two-digit by two-digit multiplication (larger numbers with calculator).			31, 32, 33 <b>SB:</b> 23-1	
<b>b.</b>	Up to three-digit by two-digit division (larger numbers with calculator).			65, 69-71, 75 <b>SB:</b> 28-3	
<b>c.</b>	Strategies for multiplying and dividing numbers.	42, 45, 48, 61-68 <b>SB:</b> 20-7, 20-8, 25-7, 25-11		3, 5, 7-9, 28, 31, 52-57 <b>SB:</b> 20-34, 21-11, 21-12	
<b>d.</b>	Estimation of products and quotients in appropriate situations.	59 <b>SB:</b> 21-2		23, 34 <b>SB:</b> 21-7, 23-3, 26-13	
<b>e.</b>	Relationships between operations.	26, 28, 32 <b>SB:</b> 25-4, 25-9		49 <b>SB:</b> 25-20, 25-24	
<b>1.03</b>	Solve problems using models, diagrams, and reasoning about fractions and relationships among fractions involving halves, fourths, eighths, thirds, sixths, twelfths, fifths, tenths, hundredths, and mixed numbers.				17-22 <b>SB:</b> 33-1 to 33-7, 34 4
<b>1.04</b>	Develop fluency with addition and subtraction of non-negative rational numbers with like denominators, including decimal fractions through hundredths.				
<b>a.</b>	Develop and analyze strategies for adding and subtracting numbers.				17-22 <b>SB:</b> 33-1 to 33-7
<b>b.</b>	Estimate sums and differences				
<b>c.</b>	Judge the reasonableness of solutions.				
<b>1.05</b>	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	67	33-38 <b>SB:</b> 26-5, 26-6, 29-1	51, 76 <b>SB:</b> 23-3, 26-12	

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	<b>Competency Goal 2: The learner will understand and use perimeter and area.</b>				
<b>2.01</b>	Develop strategies to determine the area of rectangles and the perimeter of plane figures.				65-70 <b>SB:</b> 46-1, 46-2, 46-3, 46-5, 46-8
<b>2.02</b>	Solve problems involving perimeter of plane figures and area of rectangles.				65-70 <b>SB:</b> 46-4
	<b>Competency Goal 3: The learner will recognize and use geometric properties and relationships.</b>				
<b>3.01</b>	Use the coordinate system to describe the location and relative position of points and draw figures in the first quadrant.	13 <b>SB:</b> 48-2, 48-3	<b>SB:</b> 48-4		33 <b>SB:</b> 36-2, 36-3
<b>3.02</b>	Describe the relative position of lines using concepts of parallelism and perpendicularity.				
<b>3.03</b>	Identify, predict, and describe the results of transformations of plane figures.				
<b>a.</b>	Reflections.				42 <b>SB:</b> 39-2
<b>b.</b>	Translations.				42 <b>SB:</b> 39-2
<b>c.</b>	Rotations.				43 <b>SB:</b> 39-2
	<b>Competency Goal 4: The learner will understand and use graphs, probability, and data analysis.</b>				

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<b>4.01</b>	Collect, organize, analyze, and display data (including line graphs and bar graphs) to solve problems.	68 <b>SB:</b> 50-4	46 <b>SB:</b> 50-5, 50-6		
<b>4.02</b>	Describe the distribution of data using median, range and mode.			68 <b>SB:</b> 50-9	
<b>4.03</b>	Solve problems by comparing two sets of related data.				
<b>4.04</b>	Design experiments and list all possible outcomes and probabilities for an event.				74 <b>SB:</b> 49-4, 49-6
	<b>Competency Goal 5: The learner will demonstrate an understanding of mathematical relationships.</b>				
<b>5.01</b>	Identify, describe, and generalize relationships in which:				
<b>a.</b>	Quantities change proportionally.		17, 43 <b>SB:</b> 20-11	14, 15 <b>SB:</b> 20-31	<b>SB:</b> 48-8
<b>b.</b>	Change in one quantity relates to change in a second quantity.		17, 43 <b>SB:</b> 20-11	14, 15 <b>SB:</b> 20-31	<b>SB:</b> 48-8
<b>5.02</b>	Translate among symbolic, numeric, verbal, and pictorial representations of number relationships.	11		15 <b>SB:</b> 20-31	<b>SB:</b> 48-8
<b>5.03</b>	Verify mathematical relationships using:				
<b>a.</b>	Models, words, and numbers.		17, 43 <b>SB:</b> 20-11	15 <b>SB:</b> 20-31	<b>SB:</b> 48-8
<b>b.</b>	Order of operations and the identity, commutative, associative, and distributive properties.		10, 54 <b>SB:</b> 20-6, 20-17	6, 16 <b>SB:</b> 20-23, 20-32	