



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® EXTENSIONS GRADE 4*

		Student Book	Skill Builders
STRANDS: NUMBER AND OPERATIONS, MEASUREMENT, GEOMETRY, DATA ANALYSIS AND PROBABILITY, ALGEBRA			
Competency Goal 1: The learner will read, write model, and compute with non-negative rational numbers.			
1.01	Develop number sense for rational numbers 0.01 through 99,999.	1-6	1-1, 2-1, 6-1
a.	Connect model, number word, and number using a variety of representations.	1-4, 7	1-1, 4-1, 5-1, 6-1
b.	Build understanding of place value (hundredths through ten thousands).	2, 3	1-1, 6-1
c.	Compare and order rational numbers.	5, 6	2-1
d.	Make estimates of rational numbers in appropriate situations.	9, 10	7-1, 8-1
1.02	Develop fluency with multiplication and division:	25-27, 37-39	20-1 to 20-3, 25-1 to 25-4
a.	Two-digit by two-digit multiplication (larger numbers with calculator).	35	22-1, 23-1
b.	Up to three-digit by two-digit division (larger numbers with calculator).		
c.	Strategies for multiplying and dividing numbers.	36, 44	48-1, 49-1 to 49-3
d.	Estimation of products and quotients in appropriate situations.	34	
e.	Relationships between operations.	38, 39	25-2, 25-3
1.03	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.	45-50	30-1, 31-1, 32-1, 33-1, 33-2, 34-1
1.04	Develop fluency with addition and subtraction of non-negative rational numbers with like denominators, including decimal fractions through hundredths.	49, 50	33-1, 33-2, 34-1
a.	Develop and analyze strategies for adding and subtraction numbers.	21	

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b.	Estimate sums and differences	22	
c.	Judge the reasonableness of solutions.		
1.05	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	33, 34, 36, 44	47-3, 48- 1, 49-1 to 49-3
	Competency Goal : The learner will understand and use perimeter and area.		
2.01	Develop strategies to determine the area of rectangles and the perimeter of plane figures.	61, 62	46-1, 46-2
2.02	Solve problems involving perimeter of plane figures and area of rectangles.	61, 62	46-1, 46-2
	Competency Goal 3: The learner will recognize and use geometric properties and relationships.		
3.01	Use the coordinate system to describe the location and relative position of points and draw figures in the first quadrant.	51, 52	35-1
3.02	Describe the relative position of lines using concepts of parallelism and perpendicularity.	53	37-1
3.03	Identify, predict, and describe the results of transformations of plane figures.	54	38-1, 39-1
a.	Reflections.	54	38-1, 39-1
b.	Translations.	54	38-1, 39-1
c.	Rotations.	54	38-1, 39-1
	Competency Goal 4: The learner will understand and use graphs, probability, and data analysis.		
4.01	Collect, organize, analyze, and display data (including line graphs and bar graphs) to solve problems.	63	50-1, 50-2
4.02	Describe the distribution of data using median, range and mode.		
4.03	Solve problems by comparing two sets of related data.		
4.04	Design experiments and list all possible outcomes and probabilities for an event.	63 ,64	42-1, 50-1 to 50-3, 50-5
	Competency Goal 5: The learner will demonstrate an understanding of mathematical relationships.		
5.01	Identify, describe, and generalize relationships in which:		
a.	Quantities change proportionally.	55-57	41-1, 41-2, 43-1
b.	Change in one quantity relates to change in a second quantity.	58, 59	44-1, 45-1

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5.02	Translate among symbolic, numeric, verbal, and pictorial representations of number relationships.	55-64	44-1, 44-2, 45-1, 46-1, 46-2, 50-1 to 50-3, 50-5
5.03	Verify mathematical relationships using:		
a.	Models, words, and numbers.	55-59	41-1 to 41-2, 43-1, 44-1, 45-1
b.	Order of operations and the identity, commutative, associative, and distributive properties.	11, 12	9-1, 9-2