



Math Teachers Press, Inc.

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

NORTH CAROLINA COURSE OF STUDY CORRELATED TO MOVING WITH MATH® MIDDLE/HIGH (MH) GRADE 7					
	MH1 <i>Number Sense, Reasoning, & Data</i> Student Book Skill Builders (SB)	MH2 <i>Fractions & Decimals</i> Student Book Skill Builders (SB)	MH3 <i>Percent & Probability</i> Student Book Skill Builders (SB)	MH4 <i>Geometry & Measurement</i> Student Book Skill Builders (SB)	MH5 <i>Algebra</i> Student Book Skill Builders (SB)
	STRANDS: NUMBER AND OPERATIONS, MEASUREMENT, GEOMETRY, DATA ANALYSIS AND PROBABILITY, ALGEBRA				
	Competency Goal 1: The learner will understand and compute with rational numbers.				
1	Develop and use ratios, proportions, and percents to solve problems.	37, 38 SB: 46-2	17, 21-27, 49-52 SB: 26-1, 26-2, 27-1, 46-1	26-28 SB: 26-1 to 26-3, 27-1	28-31
1	Develop fluency in addition, subtraction, multiplication, and division of rational numbers.	36-43 SB: Pre-7, 7-1, 7-2, Pre-8, 8-1, 8-2, Pre-9, 9-1, 9-3, Pre-10, 10-1, 10-2			

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a.	Analyze computational strategies.	9, 10, 36-43 SB: Pre-7, 7-1, 7-2, Pre-8, 8-1, 8-2, Pre-9, 9-1, 9-3, Pre-10, 10-1, 10-2	14-20, 24-32, 59-66			28-31
b.	Describe the effect of operations on size.	36, 37, 44, 45	14-20			
c.	Estimate the results of computations.	39, 43, 47 SB: 10-2, 44-1, 44-2	22, 34, 58, 71, 72, 74 SB: 22-2, 23-3, 44-1	33, 34 SB: 44-3		
d.	Judge the reasonableness of solutions.	38, 47, 48 SB: 10-3, 44-2	22, 71-74 SB: 22-2	32		
1	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	46, 49, 51-54 SB: 10-2, 43-8, 43-10, 43-11, 43-13	22, 23, 35, 58, 64, 71-74	SB: 28-8, 43-1		
	Competency Goal 2: The learner will understand and use measurement involving two- and three-dimensional figures.					
2	Draw objects to scale and use scale drawings to solve problems.				31, 32 SB: 46-3	

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2	Solve problems involving volume and surface area of cylinders, prisms, and composite shapes.			51, 52, 71-76 SB: 41-2, 62-2	
	Competency Goal 3: The learner will understand and use properties and relationships in geometry.				
3	Using three-dimensional figures:				
a.	Identify, describe, and draw from various views (top, side, front, corner).			36, 37 SB: 29-3, 62-1, 62-2	
b.	Build from various views.			38	
c.	Describe cross-sectional views.			37, 38	
3	Identify, define, and describe similar and congruent polygons with respect to angle measures, length of sides, and proportionality of sides.			12, 13, 25, 29 SB: 32-3, 46-2, 53-1, 53-2	
3	Use scaling and proportional reasoning to solve problems related to similar and congruent polygons.			25, 29, 30 SB: 46-2, 53-2, 53-3	
	Competency Goal 4: The learner will understand and use graphs and data analysis.				

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4	Collect, organize, analyze and display data (including box plots and histograms) to solve problems.	67, 68, 71-75 SB: 67-1 to 67-3, 68-3, 68-6				
4	Calculate, use, and interpret the mean, median, mode, range, frequency distribution, and inter-quartile range for a set of data.	56, 57, 59 SB: 45-1 to 45-4, 45-6	75, 76 SB: 45-1			
4	Describe how the mean, median, mode, range, frequency distribution, and inter-quartile range of a set of data affect its graph.	59 SB: 45-1 to 45-4				
4	Identify outliers and determine their effect on the mean, median, mode, and range of a set of data.	58, 71 SB: 45-3, 67-2				
4.1	Solve problems involving two or more sets of data using appropriate statistical measures.	64, 66 SB: 67-3, 68-2, 68-5				
	Competency Goal 5: The learner will demonstrate an understanding of linear relations and fundamental algebraic concepts.					

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5	Identify, analyze, and create linear relations, sequences, and functions using symbols, graphs, tables, diagrams, and written descriptions.	31-34, 61, 70 SB: 42-1 to 42-3, 60-1				60-64, 68 SB: 60-1, 60-5
5	Translate among different representations of algebraic expressions, equations and inequalities.	17, 18 SB: 59-3, 59-4				32-35, 39, 53 SB: 50-1
5	Use and evaluate algebraic expressions, linear equations or inequalities to solve problems.	48, 49 SB: 42-3, 43-4, 43-6, 60-1				34, 35, 44, 54, 55
5	Develop fluency in the use of formulas to solve problems.			41, 54 SB: 28-3, 28-6	61-68, 71, 72 SB: 38-1, 39-1, 40-2, 41-1	65, 66 SB: 60-2