



Math Teachers Press, Inc.

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IDAHO ACHIEVEMENT STANDARDS 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)
STANDARD 1: NUMBER AND OPERATION					
Goal 1.1: Understand and use numbers.					
By the end of 7th Grade, the student will be able to:					
1.1.1 Read, write, compare, order, and place on a number line: rational numbers, including integers, fractions, and decimals, and absolute values. (327.01.a)	7, 8 SB: 1-3	4, 11, 43 SB: 11-4	14		
1.1.2 Solve problems requiring the conversion between simple decimals, fractions (ratios), and percents. (327.01.b)		9, 50, 52, 53 SB: 11-2, 20-1 to 20-3	8-14, 30 SB: 25-2, 25-3, 27-3		

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1.1.3	Compare magnitudes and relative magnitudes of real numbers, including integers, fractions, and decimals. (327.01.c)		44 SB: 18-4	20		
1.1.4	Apply the number theory concepts of primes, composites, and prime factorization and find the Lowest Common Multiple (LCM) and the Greatest Common Factor (GCF). (327.01.d)					
1.1.5	Locate the position of rational numbers on a number line. (327.01.e)					
1.1.6	Use appropriate vocabulary.	9, 10				
	Goal 1.2: Perform computations accurately.					
	By the end of 7th Grade, the student will be able to:					
1.2.1	Add, subtract, multiply, and divide whole numbers, fractions and decimals. (327.02.a)	10, 40-49 SB: 9-3, Pre-10, 10-1, 10-2, 43-3, 43-8, 43-13, 44-2	14-20, 24-32, 56-66, 70 SB: 2-1, 12-3 to 13-4, 14-1, 14-2, 15-1, 15-2, 16-1, 17-1, 17-2			

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1.2.2	Evaluate numerical expressions using the order of operations with whole number and decimals. (327.02.b)	14-16 SB: 59-1, 59-2				
1.2.3	Rewrite multiple factors using exponents. (327.02.c)	22, 27 SB: 3-3, 6-1				
1.2.4	Add integers. (327.02.d)					13-16 SB: 58-1, 58-6
1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three. (327.02.e)	38-54 SB: Pre-9, 9-1, 9-3, Pre-10, 10-1, 10-2, 43-3, 43-8 to 43-11, 43-13, 44-2	64			
1.2.6	Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations. (328.01.a)			41, 54 SB: 28-3, 28-6, 43-3, 43-4		
1.2.7	Recognize pertinent information for problem solving. (328.01.b)	50, 51, 54 SB: 43-9, 43-11				
1.2.8	use appropriate vocabulary and notation. (327.01.f)	10				
	Goal 1.3: Estimate and judge reasonableness of results.					

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	By the end of 7th Grade, the student will be able to:					
1.3.1	Use estimation to predict computation results. (327.03.a)	43, 47, 54 SB: 10-1, 43-11, 44-2	21-23, 34, 36, 58, 71, 72, 74 SB: 43-2, 44-1	31-34 SB: 27-4, 27-5, 44-2, 44-3		
1.3.2	Explain when estimation is appropriate and describe the usefulness of an estimate as opposed to an exact answer. (327.03.b)	47 SB: 44-2				
1.3.3	Identify whether a given estimate is an overestimate or underestimate. (327.03.c)	38				
1.3.4	Formulate conjectures and discuss why students must be or seem to be true. (328.02.c)					
1.3.5	Use appropriate vocabulary and notations. (327.03.d)					
	STANDARD 2: CONCEPTS AND PRINCIPLES OF MEASUREMENT.					
	Goal 2.1: Understand and use customary and metric measurements.					
	By the end of 7th Grade, the student will be able to:					

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2.1.1 Select and use appropriate units and tools to make forma measurements in both systems. (329.01.a)				42-45 SB: 34-2, 34-3	
2.1.2 Apply estimation of measurement to real-world and content problems using actual measuring devices. (329.01.b)				46 SB: 36-1	
2.1.3 Explain the differences between perimeter, area, and volume (capacity) and their measures within both systems. (329.01.c)				49-52 SB: 36-3	
2.1.4 Solve problems involving length, volume (capacity, weight, mass, and temperature. (329.01.d)				42, 56, 57 SB: 34-3, 35-1	
2.1.5 Convert unit of measurement within each system. (329.01.e)				47-55 SB: 36-3, 37-2	
2.1.6 Apply given formulas for perimeter, circumference, and area of triangles, parallelograms, and circles, and volume of rectangular prisms. (331.01.e)				61-77 SB 39-1, 40-1, 40-2, 41-2, 44-1, 55-1, 55-2, 56-1, 62-2, 63-1, 64-1	
2.1.7 use appropriate vocabulary and notations. (329.01.f)					

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Goal 2.2: Apply the concepts of rates, ratios, and proportions.					
By the end of 7th grade, the student will be able to:					
2.2.1 Explain rates and their relationship to ratios. (329.02.a)			21-23, 26 SB: 26-1		
2.2.2 Reduce rates to unit rate.			21, 22 SB: 26-1		
2.2.3 Use proportions to solve problems. (329.03.a)			24, 25, 27 SB: 26-2, 46-1		
Goal 2.3: Apply dimensional analysis.					
By the end of 7h Grade, the student will be able to:					
2.3.1 Compare units and explain their relationship to one another and to real world applications. (329.04.a)			22		
STANDARD 3: CONCEPTS AND LANGUAGE OF ALGEBRA AND FUNCTIONS.					
Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.					

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	By the end of 7th Grade, the student will be able to:					
3.1.1	Use variables in simple expressions and equations. (330.01.a)					32, 33
3.1.2	Translate simple word statements into algebraic expressions and equations. (330.01.b)					34, 35 SB: 1-1, 50-1
3.1.3	Use symbols "<," ">," "=", "≠," "<," and ">" to express relationships. (330.01.c)					53-55 SB: 50-5
	Goal 3.2: Evaluate algebraic expressions.					
	By the end of 7th Grade, the student will be able to:					
3.2.1	Evaluate simple numeric and algebraic expressions using commutative, association, identity, zero, inverse, distributive, and substitution properties. (330.02.a)					7, 8, 45, 49, 58, 59 SB: 48-3, 59-2
3.2.2	Use the order of operations in evaluating simple algebraic expressions. (330.02.b)					51, 52 SB: 59-1

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	Goal 3.3: Solve algebraic equations and inequalities.					
	By the end of 7th Grade, the student will be able to:					
3.3.1	Solve one-step equations. (330.03.a)					41-45 SB: 50-2, 50-3
	Goal 3.4: Understand the concept of functions.					
	By the end of 7th Grade, the student will be able to:					
3.4.1	Extend patterns involving rational numbers and describe the rule that generates the pattern. (333.01.a)					27 SB: 58-8
3.4.2	Explain how a change in one quantity results in a change in another. (333.01.b)					40, 41
3.4.3	Use appropriate vocabulary and notations. (333.01.c)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	Goal 3.5: Represent equations, inequalities and functions in a variety of formats.					

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	By the end of 7th Grade, the student will be able to:					
3.5.1	Represent a simple set of data in a table, as a graph, and as a mathematical relationship. (333.02.a)					61-64 SB: 60-1, 60-6
	Goal 3.6: Apply functions to a variety of problems.					
	By the end of 7th Grade, the student will be able to:					
3.6.1	Use patterns and functions to represent and solve problems. (333.03.a)	31-34 SB: 42-2, 42-4				60
	STANDARD 4: CONCEPTS AND PRINCIPLES OF GEOMETRY					
	Goal 4.1: Apply concepts of size, shape, and spatial relationships.					
	By the end of 7th Grade, the student will be able to:					
4.1.1	Describe and classify relationships among types of one-, two-, and three-dimensional geometric figures using their defining properties. (331.01.a)				36-38 SB: 29-3, 62-1	

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4.1.2	Draw and measure various angles and shapes using appropriate tools. (331.01.b)			5-8 SB: 30-2, 31-1	
4.1.3	Apply fundamental concepts, properties, and relationships among points, lines, rays, planes, angles, and shapes. (331.01.c)			4, 6-11, 18 SB: 30-1, 30-2, 31-1 to 31-3, 33-1	
4.1.4	Identify congruence, similarities, and line symmetry of shapes. (331.01.d)			12-15, 24, 25 SB: 32-2, 32-3, 32-5, 53-1	
4.1.5	Describe the concept of surface area and volume (capacity). (331.01.d)			49-53 SB: 36-3	
4.1.6	Explain and model the effects of reflections, translations, and rotations on various shapes. (331.01.g)			14, 16 SB: 32-4	
4.1.7	Use appropriate vocabulary and notations. (331.01.h)			2-4 SB: 29-1, 29-2, 30-1	
	Goal 4.2: Apply the geometry of right triangles.				
	No objectives at this grade level.				

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	Goal 4.3: Apply graphing in two dimensions.					
	By the end of 7th Grade, the student will be able to:					
4.3.1	Identify and plot points on a coordinate plane.	69-70				60, 61
	STANDARD 5: DATA ANALYSIS, PROBABILITY, AND STATISTICS					
	Goal 5.1: Understand data analysis.					
	By the end of 7th Grade, the student will be able to:					
5.1.1	Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots.	63-75 SB: 67-1 to 67-3, 68-3, 68-6				
5.1.2	Explain conclusions drawn from tables, charts, and graphs. (332.01.b)	74, 76 SB: 67-1				

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5.1.3	Use appropriate vocabulary and notations. (332.01.c)	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout	Glossary and vocabulary words throughout
	Goal 5.2: Collect, organize, and display data.					
	By the end of 7th Grade, the student will be able to:					
5.2.1	Collect, organize and display data with appropriate notation in tables, charts and graphs, including scatter plots, line graphs, line plots, bar graphs, and stem-and-leaf plots. (332.02.a)	63-76 SB: 67-1 to 67-3, 68-3, 68-6				
	Goal 5.3: Apply simple statistical measurements.					
	By the end of 7th Grade, the student will be able to:					
5.3.1	Determine the measures of central tendency - mean, median and mode - with sets of data. (332.03.a)	55-60 SB: 45-3, 45-4, 45-6	75, 76 SB: 45-1			
5.3.2	Discuss distribution of data, including range, frequency, gaps, and clusters. (332.03.b)	55-60 SB: 45-3, 45-4, 45-6				

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	goal 5.4: Understand basic concepts of probability.				
	By the end of 7th Grade, the student will be able to:				
5.4.1	Predict, perform, and record results of simple probability experiments. (332.04.a)		61-68 SB: 47-1, 47-2, 47-4, 47-5		
5.4.2	Recognize equally likely outcomes. (332.04.c)		61		
5.4.3	Explain that probability ranges from impossible to certain (0% to 100%).		62, 63 SB: 47-1, 47-2		
5.4.4	use the language of probability. (332.04.b)		61-63 SB: 47-1, 47-2		
	Goal 5.5: Make predictions or decisions based on data.				
	By the end of 7th Grade, the student will be able to:				
5.5.1	make predictions based on simple theoretical probabilities. (332.05.a)		74 SB: 47-6		
5.5.2	Use appropriate vocabulary and notations. (332.05.b)				