



7th Grade Mathematics Benchmark/Indicator Quizzes Table of Contents

Standard	Benchmark	Indicator	Description	Page Number
Number, Number Sense and Operations				
E	4a		Order of Operations Involving Integers and Fractions	1
E	4b		Order of Operations Involving Integers and Decimals	2
G	9a		Using Absolute Value Concepts	3
G	9b		Using Exponent Concepts	4
G	9c		Using Square Root Concepts	5
H	5		Effects of Operations on Integers	6
H	8		Computing with Percents and Integers	7
I	6		Simplifying and Solving Problems Involving Integers	8
I	7		Using the Appropriate Form of a Rational Number	9
I	9		Using Absolute Value, Exponents, and Square Roots	10
Measurement				
A	1a		Selecting Appropriate U.S. Customary Units	11
A	1b		Selecting Appropriate Metric Units	12
B	2a		Converting U.S. Customary Units for Area and Volume	13
B	2b		Converting Metric Units for Area and Volume	14
C	6a		Developing Formulas to Find the Area of a Trapezoid	15
C	6b		Developing Formulas to Find the Volume of a Cylinder.....	16
C	6c		Developing Formulas to Find the Volume of a Rectangular Prism	17
C	7a		Finding Areas of Composite Figures	18
C	7b		Finding Areas of Cutout and Shaded Figures	19
D	3		Increasing Precision of a Measurement Tool	20
E	4		Using Proportions and Scale Factors	21
F	9a		Effects of Changing Measurements of a Cylinder on Surface Area and Volume	22
F	9b		Effects of Changing Measurements of a Rectangular Prism on Surface Area and Volume	23
G	8		Differences between Surface Area and Volume	24
Geometry and Spatial Sense				
D	2a		Quadrilateral Subsets.....	25
D	2b		Quadrilateral Properties	26
E	1		Proportions in Similar Triangles	27
E	6		Scale Factors in Similar Figures	28
F	4		Congruent Triangles	29
F	7		Line and Rotational Symmetry	30
G	3a		Pythagorean Theorem	31
G	3b		Sum of the Angles of a Triangle	32
G	5		Missing Angles and Sides	33
H	8		Translations, Reflections, Rotations, and Dilations	34
I	9		Three-Dimensional Drawings	35
J	1		Proportional Reasoning	36
J	6		Solving Problems Using Scale Factors	37
Patterns, Functions and Algebra				
B	1		Representing and Analyzing Patterns, Rules, and Functions	38
B	2		Describing How to Find the Next Term in a Pattern	39





7th Grade Mathematics Benchmark/Indicator Quizzes Table of Contents

Standard	Benchmark	Indicator	Description	Page Number
Patterns, Functions and Algebra (Continued)				
D	9		Using Variables in a Variety of Ways	40
E	3		Recognizing Linear and Nonlinear Patterns	41
F	5		Representing a Linear Equation by Plotting Points	42
F	6		Representing Inequalities	43
G	1		Representing Algebraic Expressions	44
G	7		Recognizing Equivalent Algebraic Expressions	45
H	4		Solving and Representing Linear Equations and Inequalities	46
I	4		Explaining the Use of Inverse Operations	47
J	8		Using Formulas to Solve Problems	48
J	M-6		Using Formulas to Solve Area and Volume Problems.....	49
J	GSS-3		Using the Pythagorean Theorem and the Triangle Angle Sum	50
K	5		Graphing a Linear Equation by Plotting Points	51
K	6		Graphing Linear Equations	52
L	10		Analyzing How Changing One Variable Affects Another	53
M	11		Using Technology to Analyze Change	54
Data Analysis & Probability				
A	1a		Box-and-Whisker Plots	55
A	1b		Stem-and-Leaf Plots	56
A	1c		Line Graphs, Histograms, and Circle Graphs	57
B	4		Opposing Arguments	58
D	5		Comparing Data and Sample Selection	59
E	2		Graphical Representations	60
F	3		Measures of Center and Spread	61
G	2		Evaluating Conjectures and Predictions	62
G	6		Misuses of Statistical Data	63
I	7a		Probability of Compound Events Using Organized Lists	64
I	7b		Probability of Compound Events Using Tree Diagrams.....	65
I	7c		Probability of Compound Events Using Area Models	66
K	8		Experimental and Theoretical Probability	67
LESSONS WITH GRADE 7 INDICATORS NOT TESTED UNTIL GRADE 8				
Number, Number Sense and Operations				
A	1		Large Numbers and Scientific Notation	68
B	3		Rational and Irrational Numbers	69
F	5		Effects of Operations with Integers	70
I	2		Zero and Negative Exponents.....	71
Measurement				
A	5		Analyzing Problem Situations	72
Data Analysis and Probability				
I	8		Experimental and Theoretical Probability	73
Answer Key				
				74 – 76