Eighth Grade State Achievement Tests

Item Distribution Across Standards

MATH

Points assigned to each standard and benchmark

STANDARD/Benchmarks		Practice Test		March 2005	March 2006	May 2007
NUMBER SENSE & OPERATIONS		**5**		**10**	**10**	**8**
Scientific Notation to Express Numbers	A	0		1	1	1
Identify Subsets of Real Number Systems	B	0		1	1	1
Properties of Operations	C	0		0	3 S	1
Integers, Rational/Irrational Numbers	D	0		0	0	0
Equivalent Forms of Real Numbers	E	0		0	1	0
Effects of Operations	F	0		1	1	1
Ratio, Proportions, Percent	G	2 S	M	4 S	2 S	2 S
Square Root of Perfect and Non-Perfect Squares	H	1	L	2	0	1
Scientific Notation Square Roots, etc.	I	2	LM	1	1	1
MEASUREMENT		**4**		**8**	**8**	**9**
Solve Measurement Problems	A	1	M	0	0	0
Use Formulas for Area & Volume of 3D Objects	B	1	L	1	5 S	1
Perimeter, Circumference, Area, Volume	C	1	M	1	0	1
Proportional Reasoning…	D	0		3	2	2
Measure to Specified Level of Precision	E	0		3 S	1	3 S
Money, Elapsed Time, Temperature Problems	F	1	M	0	0	1
PATTERNS/FUNCTIONS/ALGEBRA		**6**		**10**	**11**	**11**
Patterns, Sequences	A	0		2 S	0	1
Linear, Non-Linear Functions	B	0		1	1	0
Translate Info. From Representations	C	0		2	1	1
Algebraic Representations to Solve Problems	D	0		0	4 E	1
Functions & Graphs	E	4 E	M	0	2	2
Solve, Graph Linear Equations, Inequalities	F	1	M	1	1	1
Quadradic Equations with Real Roots	G	0		1	1	1
Linear Equations with 2 Variables	H	0		2 S	0	2 S
Direct & Inverse Variation	I	0		0	0	1
Rates of Change from Graphical/Numerical Data	J	1	M	1	1	1

"S" - 2 point short answer is included in this point total.
"E" - 4 point extended response is included in this point total.
"L", "M", "H" complexity level.

Prepared by Testing
August 2007

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STANDARD/Benchmarks		Practice Test		March 2005	March 2006	May 2007
GEOMETRY/SPATIAL SENSE		**5**		**8**	**8**	**10**
Define Geometric Figures	A	0		0	0	1
Similar and Congruent Figures	B	1	L	3 S	3 S	1
Angle Relationships/Lines	C	1	M	1	1	1
Coordinate Geometry	D	0		1	2	4 S
Draw Representations of 2D/3D Objects	E	1	M	1	1	1
Transformations in a Coordinate Plane	F	2 S	M	1	1	2 S
Problems with 3D Objects	G	0		0	0	0
Geometric Proofs	H	0		1	0	0
Rt. Triangle Trigometric Relationships	I	0		0	0	0
DATA ANALYSIS/PROBABILITY		**5**		**10**	**10**	**9**
Graphical Display of Data	A	0		6* E	1	1
Evaluate Data	B	2	LL	0	1	1
Measures of Central Tendency	C	2 S	M	0	1	4 E
Find, Use and Interpret Meaures of Center & Spread	D	0		2*	0	1
Data Collections and Analysis	E	0		0	2 S	0
Construct Arguments Based on Data Analysis	F	0		5* E	1	1
Sampling Methods	G	0		0	0	0
Permutations and Combinations	H	0		1	1	0
Theoretical Probability	I	1	H	0	1	0
Compute Probabilities of Events	J	0		1	1	1
Make Predictions Based on Probabilities	K	0		0	1	0
TOTAL		**25**		**46†**	**47**	**47**

†Two items in Data Analysis measure more than one Benchmark.

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"E" - 4 point extended response is included in this point total.
"L", "M", "H" complexity level.

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