

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

*Released items only.

"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.

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STANDARD/Benchmarks		Practice Test		March 2005	March 2006
GEOMETRY/SPATIAL SENSE		5		8	4
Define Geometric Figures	A	0		0	0
Similar and Congruent Figures	B	1	L	3 S	2 S
Angle Relationships/Lines	C	1	M	1	1
Coordinate Geometry	D	0		1	1
Draw Representations of 2D/3D Objects	E	1	M	1	0
Transformations in a Coordinate Plane	F	2 S	M	1	0
Problems with 3D Objects	G	0		0	0
Geometric Proofs	H	0		1	0
Rt. Triangle Trigometric Relationships	I	0		0	0
DATA ANALYSIS/PROBABILITY		5		10	5
Graphical Display of Data	A	0		6* E	0
Evaluate Data	B	2	LL	0	0
Measures of Central Tendency	C	2 S	M	0	1
Find, Use and Interpret Measures of Center & Spread	D	0		2*	0
Data Collections and Analysis	E	0		0	2 S
Construct Arguments Based on Data Analysis	F	0		5* E	1
Sampling Methods	G	0		0	0
Permutations and Combinations	H	0		1	0
Theoretical Probability	I	1	H	0	0
Compute Probabilities of Events	J	0		1	0
Make Predictions Based on Probabilities	K	0		0	1
TOTAL		25		46†	22 *

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

*Released items only.

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"E" - 4 point extended response is included in this point total.

"L", "M", "H" complexity level.