

Seventh 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		6		12	10	10
Represent /Compare Numbers	A	0		0	0	0
Compare/Order Fractions, Decimals, Percents	B	0		0	0	0
Percents	C	0		0	0	0
Ratio, Proportion, Percent	D	0		0	0	0
Order of Operations	E	1	L	1	2	2
Number System Properties	F	0		0	0	0
Prime Factorizations, Common Factors/Multiples	G	0		0	0	0
Standard/Nonstandard Algorithms	H	3 S	MM	4 S	6 E	4 S
Problem Solving Strategies	I	2	ML	7 E	2	4 S
MEASUREMENT		6		9	10	10
Metric/US Units of Measure	A	0		1	1	1
Convert Units of Measurement	B	1	L	1	3 S	0
Tools for Measuring	C	1	L	1	2	3 S
Select and Measure Tools	D	0		1	1	1
Problem Solving with Units of Measurement	E	4 E	H	2 S	2 S	2 S
Changes in Area, Perimeter, Volume	F	0		1	1	2
2D-3D Area, Perimeter, Volume	G	0		2 S	0	1
PATTERNS/FUNCTIONS/ALGEBRA		5		10	10	10
Describe Rules for Patterns/Relationships	A	0		0	4 E	0
Analyze Patterns/Functions with Tables, etc.	B	2 S	H	2	1	4 E
Use Variables to Create and Solve Equations	C	0		0	0	0
Symbolic Algebra	D	0		1	0	0
Rules & Variables to Describe Patterns/Functions	E	1	M	1	0	1
Representations to Solve Linear Relationships	F	0		1	0	0
Algebraic Expressions	G	1	L	1	1	0
Solve Linear Equations & Inequalities	H	0		0	1	1
Inverse Operations	I	0		0	0	0
Use Formulas in Problem Solving	J	0		2 S	1	1
Graph Linear Equations & Inequalities	K	1	L	1	2	2
Analyze Functions/ Relationship	L	0		1	0	1
Rates of Change	M	0		0	0	0

***Measure Multiple Benchmarks**

"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	May 2007
GEOMETRY/SPATIAL SENSE		5		10	10	10
Identify, Label Angle Parts, etc.	A	0		0	0	0
Radius, Diameter, Center, Circumference	B	0		0	0	0
Plot Ordered Pairs/Coordinate Plane	C	0		0	0	0
Identify Line Pairs, Angles, 2D/3D Figures	D	1	M	1	1	1
Proportions of Similar Figures	E	1	L	2	*4 S	1
Congruence, Symmetry	F	1	L	0	1	2
Properties of Triangles	G	1	M	3	*2	2
Transformations of 2D Figures	H	1	L	0	2	2 S
Identify and Draw 3D Objects	I	0		4 E	0	0
Equality and Proportionality to Solve Problems	J	0		0	0	2
DATA ANALYSIS/PROBABILITY		5		9	10	10
Recreate Tables, Graphs	A	1	L	1	1	0
Interpret Data	B	0		1	1	0
Evaluate Conclusions about Data	C	0		0	0	0
Compare Data	D	0		0	0	0
Collect, Organize, Interpret Data	E	0		0	0	1
Range, Mean, Median, Mode	F	2 S	M	3 S	1	1
Evaluate Conjectures & Predictions in Graphics	G	0		1	1	1
Find Outcomes of Experiments/Problems	H	0		0	*3 S	1
Probability, Ratios, Fractional Notation	I	1	M	1	*2 S	5 E
Compare Experimental Results	J	0		0	0	1
Predictions Based on Probabilities	K	1	M	2	1	0
TOTAL		27		50	50	50

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