Math Manipulatives Div III – Grades 7, 8, 9

Crade	C4 I	Strand Topic Manipulatives	NATA AND LAKE AND	Where to Find	
Grade	Strand		Manipulatives	Exclusive (Page)	Spectrum (Page)
7		Divisibility Rules			
	1		Base 10 Blocks	53	43
7		Decimal Operations			
			11x11 Geoboards	81	20
			Base 10 Blocks	53	43
7 & 8		Percents	Fraction Manipulatives	see below	see below
			Base 10 Blocks	53	43
	Number	Decimal & Fraction	Geoboards 81	20	
7	rumoer	Conversions	Fraction Manipulatives	see below	see below
	1		Fraction Circles	64, 69	43
			Fraction Strips	64, 69	44
			Fraction Pizza	63	
			Fraction/Pattern Blocks	65	
7 & 8		Fractions	Egg Cartons & Cube-A Links		
			Fraction Rings	64, 69	43

Grade	Strand	Торіс	Manipulatives	Where to Find	
				Exclusive (Page)	Spectrum (Page)
7 & 8	Number	Integers	Integer Tiles (Counters in 2 Colors)	45, 69	2, 42
8 & 9		Perfect Squares & Square Roots	Square Tiles Geoboards	76 81	42 20
8		Ratio, Rate, & Proportional Reasoning	Square Tiles, Colored Counters, Different Shaped Objects, Cube-A-Links (Anything)	45, 50, 76	42
9		Powers			
9		Rational Numbers			
9		Order of Operations			
7 & 9	Patterns & Relations	Patterns	Toothpicks Power Polygons or Other Shaped Objects to Build Patterns From	58, 78	
7, 8, & 9		Creating & Graphing a Table of Values or Linear Relation	Write 'n Wipe Boards – Cartesian Plane		40
7		Preservation of Equality	Algebra or Math Balance	49	3

Grade	Strand	Торіс	Manipulatives	Where to Find	
				Exclusive (Page)	Spectrum (Page)
7		Expressions & Equations			
			Algebra Tiles	88-89	2, 4
7		Evaluating Expressions	Algebra Balance		3
			Algebra Tiles	88-89	Spectrum (Page) 2, 4
7, 8, & 9	Patterns & Relations	Solving Linear Equations	Algebra Balance		
		Solving Inequalities	Algebra Balance		3
9					
9		Polynomials & Polynomial	Algebra Tiles	88-89	
		Operations			
			String & Measuring Tapes		
_		Circumference & Area of	Beans		
7		Circles			
	Shape &		Rulers, Compasses, Protractors		
	Space		Geoboards	81	20
7		Geometric Constructions			
7	-	Coordinate Graphing	Geoboards	81	20

			Write 'n Wipe Boards – Cartesian Plane		40	
C 1.	C4 I		35	Where	Where to Find	
Grade	Strand	Topic	Manipulatives	Exclusive (Page)	Spectrum (Page)	
			Geoboards	81	20	
7		Transformations	Miras	75	19	
,		Transformations				
			Square Tiles	76	42	
8		Pythagorean Theorem	Geoboards	81	20	
8		Pytnagorean Theorem				
	1	Nets & 3-D Objects	Folding Geometric Shapes	79	23	
			G-O-Frames/Polydrons	72-73	22	
8	Shape &		Geometric Solids	77-78	42	
	Space		Folding Geometric Shapes	79	23	
8 & 9		Surface Area	G-O-Frames/Polydrons	72-73	22	
0 & 9		Surface Area				
		Volume	Relational Geometric Models	78-79, 82	23	
8			Cube-A –Links with GeoShapes	50		
			Cube-A-Links	50	42	
8		Dimensional Views				
9		Circle Proportios	Rulers, Compasses, Protractors			
7	Circle Properties		Circular Geoboards	81		

			Geoboards	81	20
9		Similarity of Polygons			
	Strand	Торіс	Manipulatives	Where to Find	
Grade				Exclusive (Page)	Spectrum (Page)
9		Scale Diagrams	Various Maps & Scale Drawings		
	Shape &		Miras	75	19
9	Space	Space Symmetry			
		Control Tondonov, Moon	Cube-A-Links	50	42
7		Central Tendency – Mean, Median, Mode, 7 Outliers			
7		Circle Graphs	Rulers, Compasses, Protractors Bag of Colored Objects (to sort and count, ex. Gummy Bears, Skittles, or Alphabits)	68 (Sorting Set)	
	Data Analysis		Assorted Dice (All Shapes & Sizes) Cards	66-67	9, 10
	,		Assorted Spinners	68 (Sorting Set) 66-67 66-67 66-67 1 66-67	10
7, 8, & 9		Probability & Sample Spaces	Coins		10
			Different Colored or Shaped Counters	75 50 68 (Sorting Set) 66-67 66-67	
8		Critiquing Graphs			

9	Data Collection & Population Samples	Data to Sort, Count, or Measure (thermometers for temperature, etc.)	68 (Sorting Set)	
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