

Mathematics Blueprint

WVGSA Grade 8



WVGSA Blueprint - Grade 8			
Domain		Number of Items	
Cluster		Min	Max
Calculator Total			
EE & NS	Expressions and Equations & Number System	12	16
	Know that there are numbers that are not rational, and approximate them by rational numbers	0	2
	Work with radicals and integer exponents	1	5
	Understand connections between proportional relationships, lines, and linear equations	1	5
	Analyze and solve linear equations and pairs of simultaneous linear equations	1	5
F	Functions	10	12
	Define, evaluate, and compare functions	3	7
	Use functions to model relationships between quantities	3	7
G & SP	Geometry & Statistics and Probability	16	20
	Understand congruence and similarity using physical models, transparencies, or geometry software	2	7
	Understand and apply the Pythagorean Theorem	1	5
	Solve real-world problems involving volume cylinders, cones, and spheres.	0	2
	Investigate patterns of association in bivariate data	2	7
DOK Ranges		Min	Max
DOK 1		7	11
DOK 2		22	27
DOK 3		6	11
Mathematical Habits of Mind Sub-Score		Min	Max
MHM: Modeling and Problem Solving		9	12
MHM: Use Mathematical Reasoning		8	11