

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	10	13
	Know that there are numbers that are not rational, and approximate them by rational numbers	0	2
	Work with radicals and integer exponents	0	4
	Understand connections between proportional relationships, lines, and linear equations	0	4
	Analyze and solve linear equations and pairs of simultaneous linear equations	0	4
F	Functions	8	10
	Define, evaluate, and compare functions	2	6
	Use functions to model relationships between quantities	2	6
G & SP	Geometry & Statistics and Probability	13	16
	Understand congruence and similarity using physical models, transparencies, or geometry software	1	6
	Understand and apply the Pythagorean Theorem	0	4
	Solve real-world problems involving volume cylinders, cones, and spheres.	0	2
	Investigate patterns of association in bivariate data	1	6
DOK Ranges		Min	Max
DOK 1		5	9
DOK 2		17	22
DOK 3		5	9
Mathematical Habits of Mind Sub-Score		Min	Max
MHM: Modeling and Problem Solving		9	12
MHM: Use Mathematical Reasoning		8	11