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	11	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 the connections between proportional relationships, lines, and linear equations.	0	3			
	Analyze and solve linear equations, pairs of simultaneous linear equations, and linear inequalities in one variable.	2	6			
F	Functions	8	10			
	Define, evaluate, and compare functions.	2	6			
	Use functions to model relationships between quantities.	2	6			
	Geometry & Statistics and Probability	13	15			
G & SP	Understand congruence and similarity using physical models, transparencies, or geometry software.	1	6			
	Understand and apply the Pythagorean Theorem.	0	4			
	Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.	0	2			
	Investigate patterns of association in bivariate data.	1	6			

DOK Ranges	Min	Мах
DOK 1	5	9
DOK 2	17	22
DOK 3	5	9

Mathematical Habits of Mind Sub-Score	Min	Мах
MHM: Modeling and Problem Solving	9	12
MHM: Use Mathematical Reasoning	8	11