

Table 1.4 – Oregon - Alignment Among the Technical, Content, and Cognitive Demands Categories for the Math Assessments

Test	Format				Context	Graphs			Diagrams			Formulas		Content							Cognitive Demands			
	MC	QC	GR	OE	C	S	RO	P	S	RO	P	M	G	PA	EA	IA	CG	PG	TR	SP	MISC	CU	PK	PS
<u>State Achievement Tests</u>																								
CIM Math	90	0	0	10	67	18	0	0	26	0	0	16	3	15	15	3	5	31	0	30	2	18	61	21
CIM Locator	100	0	0	0	60	20	0	0	20	0	0	15	0	25	5	0	15	20	0	30	5	20	75	5
<u>College Admissions Tests</u>																								
ACT	100	0	0	0	22	5	2	0	13	0	0	15	0	17	22	5	15	25	8	3	5	40	53	7
SAT I	58	25	17	0	25	7	0	0	18	0	0	1	8	13	37	2	6	19	0	13	11	32	53	15
SAT II Math Level IC	100	0	0	0	18	8	0	0	26	0	0	12	0	2	30	10	12	28	4	8	6	34	58	8
SAT II Math Level IIC	100	0	0	0	12	12	2	0	2	0	0	10	0	2	14	22	12	14	18	6	12	26	54	20
<u>College Placement Tests</u>																								
UO Math Placement Test	100	0	0	0	8	0	0	0	0	0	0	5	0	0	65	15	5	3	13	0	0	10	90	0

Notes.

Format

MC = multiple-choice items
 QC = quantitative comparison items
 GR = fill-in-the-grid items
 OE = open-ended items

Formulas

M = formula needs to be memorized
 G = formula is provided

Contextualization

C = contextualized items

Content Areas

PA = prealgebra
 EA = elementary algebra
 IA = intermediate algebra
 CG = coordinate geometry
 PG = plane geometry
 TR = trigonometry
 SP = statistics and probability
 MISC = miscellaneous topics

Diagrams

S = graph/diagram within item-stem
 RO = graph/diagram within response options
 P = graph/diagram needs to be produced

Cognitive Demands

CU = conceptual understanding
 PK = procedural knowledge
 PS = problem-solving