

Standard and Objective Correlation Chart

The chart below correlates each standard and objective tested on the AHSGE in Mathematics as given in the Alabama State Department of Education to this student guide. The Text Section column gives the section numbers in the text where each standard and objective is reviewed. The Pretest and Practice Test columns give the question number(s) in those tests that correlate to each standard and objective.

Standard/Objective: Description	Text Section(s)	Pretest	Practice Test 1	Practice Test 2
I-1: Apply order of operations	Sections 2 and 3, 11.1, 11.2	1–4	2, 5, 12, 51	1, 8, 15, 21
I-2 Add and subtract polynomials	11.1 – 11.6	5–8	1, 9, 13, 17	18, 24, 41, 90
I-3 Multiply polynomials	Section 10, 12.1 – 12.4	9–13	6, 10, 33, 55	9, 46, 63, 78
I-4 Factor polynomials	Section 13	14–19	18, 21, 52, 69	60, 72, 77, 96
II-1 Solve multi-step equations	Section 4, 5.3	20–22	3, 22, 24, 38	64, 81, 84, 97
II-2 Solve quadratic equations	14.1 – 14.5	23–26	7, 19, 53, 56	5, 22, 61, 95
II-3 Solve systems of linear equations	19.1 – 19.5	27–29	20, 32, 41, 57	65, 85, 87, 91
II-4 Solve multi-step inequalities	6.1, 6.2, 6.3	30–32	4, 44, 45, 54	2, 59, 75, 82
III-1 Identify functions	17.4, 18.1, 18.3, 18.4, 18.6	33–38	31, 40, 58, 100	6, 11, 55, 94
III-2 Find the range of functions	18.1, 18.2, 18.5	39–42	8, 23, 27, 46	3, 27, 62, 80
IV-1 Find perimeter, circumference, area, volume	8.1 – 8.4, Section 9	43–47	11, 34, 66, 95	25, 48, 73, 89
IV-2 Find the distance, midpoint, slope	Section 15	48–50	25, 47, 72, 97	10, 23, 71, 76
V-1, 4 Graph: Linear Equations; Common Relations	Section 16, 17.1, 18.3, 18.4	51–54	36, 62, 81, 82, 83, 84	12, 26, 30, 58, 86, 93
V-2 Graph lines given certain conditions	16.1, 16.2, 16.4 – 16.7	55–58	15, 16, 49, 50	29, 56, 57, 98
V-3 Determine solution sets of inequalities	Section 6	59–62	35, 68, 71, 89	28, 45, 51, 54
VI-1 Translate: Verbal or Symbolic Graph: Equations or Inequalities	6.4, 6.6, 6.7, 7.1, 7.4, 16.7, 17.2, 17.3	63–66	28, 39, 48, 76, 79, 85	13, 16, 36, 43, 67, 88
VII-1 Apply properties and relationships between angles	Section 20	67–73	14, 37, 73, 87	14, 37, 53, 100
VII-2 Apply Pythagorean Theorem	Section 22	74–75	29, 43, 74, 90	32, 42, 49, 99
VII-3 Apply properties of similar polygons	Section 21	76–78	60, 88, 94, 96	35, 40, 50, 79
VII-4 Apply properties of geometric figures	8.3 – 8.5, 9.2, 11.7, 12.5, 14.6	79–84	42, 59, 61, 63	33, 39, 52, 66
VII-5 Determine measures of central tendency	Section 23	85–88	30, 78, 91, 98	34, 47, 68, 69
VII-6 Determine probabilities	Section 24	89–91	26, 65, 86, 93	17, 20, 38, 70
VII-7 Solve problems: Direct Variation	Section 5	92–95	75, 77, 92, 99	7, 74, 83, 92
VII-8 Solve problems: Algebraic Concepts	Section 7, 14.6, 19.6	96–100	64, 67, 70, 80	4, 19, 31, 44