

Topics & Corresponding Questions for Math Practice Tests THE REAL ACT PREP GUIDE 3 rd EDITION by the makers of the ACT					
PLANE GEOMETRY	Test 1	Test 2	Test 3	Test 4	Test 5
Perimeter	6w, 41	7, 15, 48, 51		6, 14, 28	18w, 44
Circumference	46			57w	
Area	33, 38	13w, 30, 34, 38, 47, 52	42, 45, 51w	14, 24, 46, 47	13, 18w, 35w, 55, 36w
Volume	27w,		39, 57	43	36
Kindergarten “Cut- outs”		30	39		
Triangles		14, 15, 31	30	15, 1w	22, 33, 44, 38
Angles	40	6, 14, 17, 43, 50	8, 30, 35	10, 15	23, 38, 44, 22, 45
$A^2 + B^2 = C^2$	20w, 25, 37w	33, 52, 47	4, 41	20, 60, 1	
Diagonals	20w, 52				
Special Right Triangles		31, 48		45	
COORDINATE GEOMETRY	Test 1	Test 2	Test 3	Test 4	Test 5
Distance	30, 45	33	38	39w, 53	13, 16, 29, 30, 31
Midpoint	35w		15	38	42
Slope Intercept	22, 57	16, 21, 19	17, 28	17, 25, 26	
Slope Parallel Perpendicular		21	28, 17	26	59
Intercepts		16			
Quadrants	17				
Systems	31	11w	17	22	24
Parabolas	57		50		48
Circles $(x-h)^2+(y-k)^2=r^2$	47	57		46	15
Transformations	58		19		59
TRIGONOMETRY	Test 1	Test 2	Test 3	Test 4	Test 5
Basic Trig	24, 28	20, 45	46	37w, 54	43, 46, 53
Trig with limits	54	55	49, 37	58	58

ALGEBRA	Test 1	Test 2	Test 3	Test 4	Test 5
Substitution Linear & Non-linear	26, 48, 59, 60, 10, 11w, 34, 56	8, 10, 22, 23, 32, 35, 36, 43, 58	2, 14, 22, 34, 37	16, 23, 42, 3, 11, 31, 48	3
“Plug it in”	5w, 10, 11w, 26w, 34, 48, 56, 60	8, 10, 22, 23, 32, 35, 56, 58w	2, 22, 34, 37, 50	3, 10, 16, 23, 25, 31, 42	3, 9, 11, 17, 55, 60
Distributing * incl. FOIL	7, 56, 48	41, 56	10, 12	9, 21, 23, 36	60, 7, 14, 25
Simplifying / Combine Like Terms	21, 2, 29w, 57	28, 49	26, 46, 56, 10, 12	21, 36	14, 34, 60
Linear Equations (Solve for Single, Linear Variable)	8, 16, 26, 32, 59, 23w, 27w	12, 43, 2w, 15, 16, 18	7, 16, 56, 3w, 20, 18	2w, 7, 8, 9, 19	1, 7, 9, 25, 40
Quadratic Equations *incl. unFOIL or QuadSolve	23, 40	56	14, 20, 55	27, 10, 23, 30, 36, 55	
Cubic Functions	9	36			
Inequalities	51, 55	22, 26, 40, 9w, 54	27, 32, 33, 36, 54	7w, 51	57, 28, 40w
Absolute Value		26	27	55	
Exponents	2, 43		10, 31	59	2, 18, 56, 52
Mean/ Average	42, 14w	4w	1w, 11w, 59w	35, 51	10w, 50
Median/Mode		29		29	
RATIOS/ PROPORTIONS	Test 1	Test 2	Test 3	Test 4	Test 5
Rates	3w	1w	25w, 44w		
Ratios/Proportions	3w, 19w, 28, 46, 39w	2w, 3w, 1w, 7, 13w, 25w	25w, 52, 44w, 45w	8, 57w	12w, 20, 36
Similar Figures	39w	7, 25w	57	1w, 28	30
Circle Factoids	53w		43, 58	34, 57	
ELEMENTARY	Test 1	Test 2	Test 3	Test 4	Test 5
Probability	12w			5w	27w
Arrangements					
Combinations	18w	24w	13w		

Fractions	1w, 29w, 42w		9, 16, 23w, 26, 52, 53	33	29, 34
Series & Sequences	9, 49	37		32, 25	22, 32w, 54
Percents	44w	60w	51w, 60w	50, 52	13, 28, 37w, 39w
Scientific Notation		39w	44		19
ADVANCED	Test 1	Test 2	Test 3	Test 4	Test 5
Matrices	13w, 16	42	22		
Logarithms		59	29, 18	49, 59	56
Complex Numbers	48			41	
OTHER	Test 1	Test 2	Test 3	Test 4	Test 5
Vocabulary	9, 21, 25, 36, 43, 47	44, 49	53	12, 27, 40, 59, 18	9, 26, 41, 47
Translation (all word problems)	36, 42, 44, 50, 53	15, 27, 58, 2, 4, 5, 9, 11, 18	3, 6, 11, 24, 26, 32, 40, 56, 58	2, 4, 7, 18, 19, 30	6, 17, 21, 25, 37, 40, 41, 47, 49
Miscellaneous	15	34, 46, 53w,	4, 5, 21, 40, 45, 47, 48, 58	4, 13, 14, 16, 53, 56, 59	4, 5, 8, 16, 51

w = indicates word problem