



## Problem Solving

### New Problem Solving Problems

2, 5, 13, 18, 23, 24, 27, 28, 37, 40, 42, 43, 45, 48, 50, 54, 58, 59, 60, 65, 66, 68, 69, 73, 74, 79, 81, 82, 83, 89, 90, 91, 92, 99, 105, 106, 107, 108, 109, 110, 117, 119, 124, 142, 143, 146, 148, 149, 157, 159, 163, 164, 171, 197, 222, 230

### New Problem Solving Problems by Category

The primary topic tested on each problem is listed below. Problems that test more than one topic are only listed once.

#### Algebra (Equations/Inequalities)

2      42      58      68      89      119      146      163      171      222

Basic Equations: 2      58

Formulas & Functions: 42      68      146      171

Inequalities: 119

Quadratic Equations: 222

VICs: 89      163

#### Fractions, Decimals, & Percents

13      24      28      37      43      45      60      74      79      92      108      109      143

Digits & Decimals: 28      79      108      143

Fractions: 24      37      43      45      74

Percents: 13

Successive Percents & Percent Change: 60      92      109

#### Geometry

18      48      197

Circles & Cylinders: 197

Polygons: 18

Triangles & Diagonals: 48



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### Number Properties

23	40	50	54	73	82	106	107	110	117	142	157	159
164	230											

Consecutive Integers: 157

Divisibility & Primes: 23 82 106 107 110 142 159

Exponents & Roots: 54 73 117 164 230

Odds & Evens: 40

Positives & Negatives: 50

### Word Translations

5	27	59	65	66	69	81	83	90	91	99	105	124
148	149											

Algebraic Translations: 59 65 83 90 91

Combinatorics & Probability: 105

Overlapping Sets: 124

Rates & Work: 81 149

Ratios: 66

Statistics: 5 27 69 99 148



# Official Guide 12th Ed. Problem Format Analysis

## Sequential Problem Correspondence between the 11<sup>th</sup> and 12<sup>th</sup> Editions

11th	12th
1	1
2	3
3	4
4	6
5	7
6	8
7	9
8	10
9	11
10	12
11	14
12	15
13	16
14	na
15	17
16	na
17	19
18	20
19	21
20	22
21	na
22	na
23	25
24	26
25	na
26	29
27	30
28	31
29	32
30	33
31	34
32	35
33	36
34	na
35	38
36	39
37	na
38	41
39	na
40	na

11th	12th
41	44
42	na
43	46
44	47
45	na
46	49
47	na
48	na
49	51
50	52
51	53
52	55
53	56
54	57
55	na
56	na
57	na
58	na
59	61
60	62
61	63
62	64
63	na
64	67
65	na
66	na
67	na
68	na
69	70
70	71
71	72
72	75
73	76
74	77
75	78
76	na
77	na
78	na
79	na
80	na

11th	12th
81	na
82	80
83	na
84	na
85	84
86	85
87	86
88	87
89	88
90	na
91	na
92	na
93	93
94	94
95	na
96	95
97	96
98	97
99	98
100	na
101	na
102	100
103	101
104	na
105	102
106	103
107	104
108	na
109	na
110	111
111	112
112	113
113	114
114	na
115	115
116	116
117	na
118	118
119	na
120	120

11th	12th
121	121
122	122
123	123
124	na
125	125
126	126
127	127
128	128
129	129
130	130
131	131
132	132
133	133
134	134
135	135
136	136
137	137
138	138
139	139
140	140
141	141
142	na
143	na
144	144
145	145
146	na
147	147
148	na
149	na
150	150
151	151
152	152
153	153
154	154
155	155
156	156
157	na
158	158
159	na
160	160



## Official Guide 12th Ed. Problem Format Analysis

11th	12th
161	161
162	na
163	162
164	165
165	166
166	167
167	168
168	169
169	170
170	na
171	172
172	173
173	174
174	175
175	176
176	177
177	na
178	na
179	178
180	na
181	179
182	180
183	181
184	182
185	183
186	184
187	185
188	186
189	187
190	188
191	189
192	na
193	na
194	190
195	191
196	192
197	193
198	na
199	194
200	195
201	na
202	na
203	na
204	na

11th	12th
205	196
206	na
207	198
208	na
209	na
210	na
211	na
212	199
213	na
214	200
215	201
216	202
217	na
218	na
219	203
220	204
221	na
222	205
223	206
224	207
225	208
226	209
227	210
228	211
229	212
230	213
231	214
232	215
233	216
234	217
235	218
236	219
237	220
238	na
239	221
240	223
241	na
242	224
243	225
244	226
245	227
246	na
247	228
248	229

11th	12th
249	na



# Official Guide 12th Ed. Problem Format Analysis

## Sequential Problem Correspondence between the 12<sup>th</sup> and 11<sup>th</sup> Editions

12th	11th
1	1
2	na
3	2
4	3
5	na
6	4
7	5
8	6
9	7
10	8
11	9
12	10
13	na
14	11
15	12
16	13
17	15
18	na
19	17
20	18
21	19
22	20
23	na
24	na
25	23
26	24
27	na
28	na
29	26
30	27
31	28
32	29
33	30
34	31
35	32
36	33
37	na
38	35
39	36
40	na

12th	11th
41	38
42	na
43	na
44	41
45	na
46	43
47	44
48	na
49	46
50	na
51	49
52	50
53	51
54	na
55	52
56	53
57	54
58	na
59	na
60	na
61	59
62	60
63	61
64	62
65	na
66	na
67	64
68	na
69	na
70	69
71	70
72	71
73	na
74	na
75	72
76	73
77	74
78	75
79	na
80	82

12th	11th
81	na
82	na
83	na
84	85
85	86
86	87
87	88
88	89
89	na
90	na
91	na
92	na
93	93
94	94
95	96
96	97
97	98
98	99
99	na
100	102
101	103
102	105
103	106
104	107
105	na
106	na
107	na
108	na
109	na
110	na
111	110
112	111
113	112
114	113
115	115
116	116
117	na
118	118
119	na
120	120

12th	11th
121	121
122	122
123	123
124	na
125	125
126	126
127	127
128	128
129	129
130	130
131	131
132	132
133	133
134	134
135	135
136	136
137	137
138	138
139	139
140	140
141	141
142	na
143	na
144	144
145	145
146	na
147	147
148	na
149	na
150	150
151	151
152	152
153	153
154	154
155	155
156	156
157	na
158	158
159	na
160	160



## Official Guide 12th Ed. Problem Format Analysis

12th	11th
161	161
162	163
163	na
164	na
165	164
166	165
167	166
168	167
169	168
170	169
171	na
172	171
173	172
174	173
175	174
176	175
177	176
178	179
179	181
180	182
181	183
182	184
183	185
184	186
185	187
186	188
187	189
188	190
189	191
190	194
191	195
192	196
193	197
194	199
195	200
196	205
197	na
198	207
199	212
200	214
201	215
202	216
203	219
204	220

12th	11th
205	222
206	223
207	224
208	225
209	226
210	227
211	228
212	229
213	230
214	231
215	232
216	233
217	234
218	235
219	236
220	237
221	239
222	na
223	240
224	242
225	243
226	244
227	245
228	247
229	248
230	na