

1)

140	121	130	281
122	99	124	204
<hr/>			
_____ > _____ > _____ > _____			

6)

219		322
243		314
<hr/>		
_____ > _____ > _____ > _____		

2)

232	248	96	234
302	255	133	276
<hr/>			
_____ > _____ > _____ > _____			

8)

16		40
54		124
<hr/>		
_____ > _____ > _____ > _____		

3)

100	118	130	81
217	306	303	168
<hr/>			
_____ > _____ > _____ > _____			

10)

82		51
314		219
<hr/>		
_____ > _____ > _____ > _____		

4)

735	705	808	650
786	670	727	788
<hr/>			
_____ > _____ > _____ > _____			

12)

209		244
160		191
<hr/>		
_____ > _____ > _____ > _____		

5)

956	441	893	800
993	392	740	769
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{281}{204} > \frac{121}{99} > \frac{140}{122} > \frac{130}{124}$			
1.377	1.222	1.148	1.048

2)			
$\frac{248}{255} > \frac{234}{276} > \frac{232}{302} > \frac{96}{133}$			
0.973	0.848	0.768	0.722

3)			
$\frac{81}{168} > \frac{100}{217} > \frac{130}{303} > \frac{118}{306}$			
0.482	0.461	0.429	0.386

4)			
$\frac{808}{727} > \frac{705}{670} > \frac{735}{786} > \frac{650}{788}$			
1.111	1.052	0.935	0.825

5)			
$\frac{893}{740} > \frac{441}{392} > \frac{800}{769} > \frac{956}{993}$			
1.207	1.125	1.040	0.963

6)	$\frac{219}{243}$	47.03%	322
	0.901	->	314
		29.22%	1.025
7)	$\frac{167}{264}$	1.21%	165
	0.633	<-	232
		13.79%	0.711
8)	$\frac{16}{54}$	150.00%	40
	0.296	->	124
		129.63%	0.323
9)	$\frac{85}{92}$	124.71%	191
	0.924	->	209
		127.17%	0.914
10)	$\frac{82}{314}$	60.78%	51
	0.261	<-	219
		43.38%	0.233
11)	$\frac{261}{21}$	36.65%	191
	12.429	<-	15
		40.00%	12.733
12)	$\frac{209}{160}$	16.75%	244
	1.306	->	191
		19.38%	1.277
13)	$\frac{82}{275}$	41.46%	116
	0.298	->	340
		23.64%	0.341
14)	$\frac{125}{241}$	941.67%	12
	0.519	<-	24
		904.17%	0.500
15)	$\frac{49}{156}$	25.64%	39
	0.314	<-	126
		23.81%	0.310

1)

19	312	168	307
14	216	139	202
<hr/>			
_____ > _____ > _____ > _____			

6)

252		280
215		229
<hr/>		

2)

258	312	187	340
267	268	215	323
<hr/>			
_____ > _____ > _____ > _____			

7)

49		54
44		48
<hr/>		

8)

310		78
328		94
<hr/>		

3)

286	249	239	250
214	168	188	150
<hr/>			
_____ > _____ > _____ > _____			

9)

307		80
318		89
<hr/>		

10)

235		147
290		189
<hr/>		

4)

461	877	826	429
405	966	799	358
<hr/>			
_____ > _____ > _____ > _____			

11)

22		18
285		260
<hr/>		

12)

295		185
111		74
<hr/>		

5)

308	503	586	668
368	577	789	990
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{307}{202} > \frac{312}{216} > \frac{19}{14} > \frac{168}{139}$
1.520	1.444
1.357	1.209

2)	$\frac{312}{268} > \frac{340}{323} > \frac{258}{267} > \frac{187}{215}$
1.164	1.053
0.966	0.870

3)	$\frac{250}{150} > \frac{249}{168} > \frac{286}{214} > \frac{239}{188}$
1.667	1.482
1.336	1.271

4)	$\frac{429}{358} > \frac{461}{405} > \frac{826}{799} > \frac{877}{966}$
1.198	1.138
1.034	0.908

5)	$\frac{503}{577} > \frac{308}{368} > \frac{586}{789} > \frac{668}{990}$
0.872	0.837
0.743	0.675

6)	$\frac{252}{215} > \frac{1.172}{1.172}$	11.11%	280
		->	229
		6.51%	1.223
7)	$\frac{49}{44} > \frac{1.114}{1.114}$	10.20%	54
		->	48
		9.09%	1.125
8)	$\frac{310}{328} > \frac{0.945}{0.945}$	297.44%	78
		-<	94
		248.94%	0.830
9)	$\frac{307}{318} > \frac{0.965}{0.965}$	283.75%	80
		-<	89
		257.30%	0.899
10)	$\frac{235}{290} > \frac{0.810}{0.810}$	59.86%	147
		-<	189
		53.44%	0.778
11)	$\frac{22}{285} > \frac{0.077}{0.077}$	22.22%	18
		-<	260
		9.62%	0.069
12)	$\frac{295}{111} > \frac{2.658}{2.658}$	59.46%	185
		-<	74
		50.00%	2.500
13)	$\frac{187}{137} > \frac{1.365}{1.365}$	12.65%	166
		-<	118
		16.10%	1.407
14)	$\frac{94}{42} > \frac{2.238}{2.238}$	240.43%	320
		->	131
		211.90%	2.443
15)	$\frac{320}{340} > \frac{0.941}{0.941}$	25.98%	254
		-<	268
		26.87%	0.948

1)

154	34	62	149
323	61	123	257
<hr/>			
_____ > _____ > _____ > _____			

6)

54		44
30		23
<hr/>		

2)

292	270	94	282
270	286	81	335
<hr/>			
_____ > _____ > _____ > _____			

8)

153		54
282		107
<hr/>		

3)

199	195	310	195
145	194	270	153
<hr/>			
_____ > _____ > _____ > _____			

9)

290		300
231		256
<hr/>		

4)

315	584	503	460
467	922	907	934
<hr/>			
_____ > _____ > _____ > _____			

10)

110		322
40		103
<hr/>		

5)

308	945	597	641
252	695	406	396
<hr/>			
_____ > _____ > _____ > _____			

11)

52		80
194		332
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{149}{257} > \frac{34}{61} > \frac{62}{123} > \frac{154}{323}$			
0.580	0.557	0.504	0.477

2)			
$\frac{94}{81} > \frac{292}{270} > \frac{270}{286} > \frac{282}{335}$			
1.160	1.081	0.944	0.842

3)			
$\frac{199}{145} > \frac{195}{153} > \frac{310}{270} > \frac{195}{194}$			
1.372	1.275	1.148	1.005

4)			
$\frac{315}{467} > \frac{584}{922} > \frac{503}{907} > \frac{460}{934}$			
0.675	0.633	0.555	0.493

5)			
$\frac{641}{396} > \frac{597}{406} > \frac{945}{695} > \frac{308}{252}$			
1.619	1.470	1.360	1.222

6)	$\frac{54}{30}$	22.73% <- 1.800	44 23 1.913
7)	$\frac{258}{273}$	30.43% <- 0.945	164 196 0.837
8)	$\frac{153}{282}$	57.32% <- 0.543	54 107 0.505
9)	$\frac{290}{231}$	183.33% <- 1.255	300 256 1.172
10)	$\frac{110}{40}$	3.45% -> 2.750	322 103 3.126
11)	$\frac{52}{194}$	10.82% -> 0.268	80 332 0.241
12)	$\frac{178}{231}$	192.73% -> 0.771	223 305 0.731
13)	$\frac{79}{45}$	53.85% -> 1.756	315 180 1.750
14)	$\frac{48}{66}$	25.28% -> 0.727	220 313 0.703
15)	$\frac{162}{202}$	32.03% -> 0.802	212 301 0.704

1)

293	284	168	253
205	244	134	156
<hr/>			
_____ > _____ > _____ > _____			

6)

206		280
221		302
<hr/>		

2)

47	162	192	309
39	147	199	230
<hr/>			
_____ > _____ > _____ > _____			

8)

292		178
165		87
<hr/>		

3)

168	277	329	239
137	194	249	160
<hr/>			
_____ > _____ > _____ > _____			

10)

259		147
303		195
<hr/>		

4)

688	681	673	674
757	956	823	648
<hr/>			
_____ > _____ > _____ > _____			

11)

256		140
309		183
<hr/>		

5)

253	292	281	316
320	283	315	443
<hr/>			
_____ > _____ > _____ > _____			

13)

290		183
236		168
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{253}{156} > \frac{293}{205} > \frac{168}{134} > \frac{284}{244}$
	1.622 1.429 1.254 1.164

2)	$\frac{309}{230} > \frac{47}{39} > \frac{162}{147} > \frac{192}{199}$
	1.343 1.205 1.102 0.965

3)	$\frac{239}{160} > \frac{277}{194} > \frac{329}{249} > \frac{168}{137}$
	1.494 1.428 1.321 1.226

4)	$\frac{674}{648} > \frac{688}{757} > \frac{673}{823} > \frac{681}{956}$
	1.040 0.909 0.818 0.712

5)	$\frac{292}{283} > \frac{281}{315} > \frac{253}{320} > \frac{316}{443}$
	1.032 0.892 0.791 0.713

6)	$\frac{206}{221} > \frac{280}{302}$
	0.932 0.927
7)	$\frac{307}{228} < \frac{164}{105}$
	1.346 1.562
8)	$\frac{292}{165} < \frac{178}{87}$
	1.770 2.046
9)	$\frac{310}{236} > \frac{334}{261}$
	1.314 1.280
10)	$\frac{259}{303} < \frac{147}{195}$
	0.855 0.754
11)	$\frac{256}{309} < \frac{140}{183}$
	0.828 0.765
12)	$\frac{260}{192} < \frac{220}{173}$
	1.354 1.272
13)	$\frac{290}{236} < \frac{183}{168}$
	1.229 1.089
14)	$\frac{160}{182} > \frac{177}{186}$
	0.879 0.952
15)	$\frac{157}{131} > \frac{266}{201}$
	1.198 1.323

1)

161	142	142	200
337	206	257	320
_____ > _____ > _____ > _____			

6)

287		264
282		266

2)

73	69	258	171
119	101	338	265
_____ > _____ > _____ > _____			

8)

278		166
326		206

3)

85	66	47	110
206	134	104	202
_____ > _____ > _____ > _____			

9)

225		295
94		110

4)

479	589	628	821
570	584	845	930
_____ > _____ > _____ > _____			

10)

295		153
303		158

5)

289	789	849	538
245	826	807	490
_____ > _____ > _____ > _____			

11)

175		298
57		88

12)

264		200
328		237

13)

327		333
280		283

14)

144		114
147		127

15)

146		241
207		328

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
142	>	200	>	142	>	161
206		320		257		337
0.689		0.625		0.553		0.478

2)						
258	>	69	>	171	>	73
338		101		265		119
0.763		0.683		0.645		0.613

3)						
110	>	66	>	47	>	85
202		134		104		206
0.545		0.493		0.452		0.413

4)						
589	>	821	>	479	>	628
584		930		570		845
1.009		0.883		0.840		0.743

5)						
289	>	538	>	849	>	789
245		490		807		826
1.180		1.098		1.052		0.955

6)	287	8.71%	264
	282	<-	266
	1.018	6.02%	0.992
7)	243	81.34%	134
	287	<-	163
	0.847	76.07%	0.822
8)	278	67.47%	166
	326	<-	206
	0.853	58.25%	0.806
9)	225	31.11%	295
	94	->	110
	2.394	17.02%	2.682
10)	295	92.81%	153
	303	<-	158
	0.974	91.77%	0.968
11)	175	70.29%	298
	57	->	88
	3.070	54.39%	3.386
12)	264	32.00%	200
	328	<-	237
	0.805	38.40%	0.844
13)	327	1.83%	333
	280	->	283
	1.168	1.07%	1.177
14)	144	26.32%	114
	147	<-	127
	0.980	15.75%	0.898
15)	146	65.07%	241
	207	->	328
	0.705	58.45%	0.735

1)

126	106	168	90
236	207	299	145
<hr/>			
_____ > _____ > _____ > _____			

6)

97	_____	251
50	_____	142
<hr/>		

2)

308	252	155	120
333	329	154	149
<hr/>			
_____ > _____ > _____ > _____			

8)

127	_____	112
153	_____	138
<hr/>		

3)

220	141	128	201
241	203	160	313
<hr/>			
_____ > _____ > _____ > _____			

9)

22	_____	42
141	_____	240
<hr/>		

4)

384	853	210	661
380	960	220	832
<hr/>			
_____ > _____ > _____ > _____			

10)

94	_____	168
138	_____	267
<hr/>		

5)

719	544	240	464
920	923	372	646
<hr/>			
_____ > _____ > _____ > _____			

11)

267	_____	231
325	_____	287
<hr/>		

12)

192	_____	128
302	_____	192
<hr/>		

13)

53	_____	56
300	_____	307
<hr/>		

14)

107	_____	221
40	_____	84
<hr/>		

15)

142	_____	116
102	_____	74
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)
$\frac{90}{145} > \frac{168}{299} > \frac{126}{236} > \frac{106}{207}$
0.621
0.562
0.534
0.512

6)	97	158.76%	251
	50	->	142
	1.940	184.00%	1.768

2)
$\frac{155}{154} > \frac{308}{333} > \frac{120}{149} > \frac{252}{329}$
1.006
0.925
0.805
0.766

7)	6	866.67%	58
	38	->	328
	0.158	763.16%	0.177

3)
$\frac{220}{241} > \frac{128}{160} > \frac{141}{203} > \frac{201}{313}$
0.913
0.800
0.695
0.642

8)	127	13.39%	112
	153	<-	138
	0.830	10.87%	0.812

4)
$\frac{384}{380} > \frac{210}{220} > \frac{853}{960} > \frac{661}{832}$
1.011
0.955
0.889
0.794

10)	94	78.72%	168
	138	->	267
	0.681	93.48%	0.629

5)
$\frac{719}{920} > \frac{464}{646} > \frac{240}{372} > \frac{544}{923}$
0.782
0.718
0.645
0.589

11)	267	15.58%	231
	325	<-	287
	0.822	13.24%	0.805

12)	192	50.00%	128
	302	<-	192
	0.636	57.29%	0.667

13)	53	5.66%	56
	300	->	307
	0.177	2.33%	0.182

14)	107	106.54%	221
	40	->	84
	2.675	110.00%	2.631

15)	142	22.41%	116
	102	<-	74
	1.392	37.84%	1.568

1)

237	264	309	132
264	335	304	186
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

175	_____	202
135	_____	174
<hr/>		

7)

47	_____	109
107	_____	233
<hr/>		

2)

181	138	274	56
148	141	257	60
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

44	_____	49
273	_____	342
<hr/>		

9)

148	_____	172
195	_____	229
<hr/>		

3)

141	177	195	70
256	261	319	90
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

251	_____	131
268	_____	144
<hr/>		

11)

121	_____	215
76	_____	129
<hr/>		

4)

752	587	275	583
698	687	300	584
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

12)

206	_____	306
224	_____	325
<hr/>		

5)

718	781	606	721
882	836	935	963
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{309}{304} > \frac{237}{264} > \frac{264}{335} > \frac{132}{186}$	1.016	0.898	0.788	0.710
----	---	-------	-------	-------	-------

2)	$\frac{181}{148} > \frac{274}{257} > \frac{138}{141} > \frac{56}{60}$	1.223	1.066	0.979	0.933
----	---	-------	-------	-------	-------

3)	$\frac{70}{90} > \frac{177}{261} > \frac{195}{319} > \frac{141}{256}$	0.778	0.678	0.611	0.551
----	---	-------	-------	-------	-------

4)	$\frac{752}{698} > \frac{583}{584} > \frac{275}{300} > \frac{587}{687}$	1.077	0.998	0.917	0.854
----	---	-------	-------	-------	-------

5)	$\frac{781}{836} > \frac{718}{882} > \frac{721}{963} > \frac{606}{935}$	0.934	0.814	0.749	0.648
----	---	-------	-------	-------	-------

6)	$\frac{175}{135} > \frac{135}{1.296}$	15.43%	->	$\frac{202}{174}$
		28.89%	->	$\frac{1.161}{1.161}$
7)	$\frac{47}{107} > \frac{107}{0.439}$	131.91%	->	$\frac{109}{233}$
		117.76%	->	$\frac{0.468}{0.468}$
8)	$\frac{44}{273} > \frac{273}{0.161}$	11.36%	->	$\frac{49}{342}$
		25.27%	->	$\frac{0.143}{0.143}$
9)	$\frac{148}{195} > \frac{195}{0.759}$	16.22%	->	$\frac{172}{229}$
		17.44%	->	$\frac{0.751}{0.751}$
10)	$\frac{251}{268} > \frac{268}{0.937}$	91.60%	<-	$\frac{131}{144}$
		86.11%	<-	$\frac{0.910}{0.910}$
11)	$\frac{121}{76} > \frac{76}{1.592}$	77.69%	->	$\frac{215}{129}$
		69.74%	->	$\frac{1.667}{1.667}$
12)	$\frac{206}{224} > \frac{224}{0.920}$	48.54%	->	$\frac{306}{325}$
		45.09%	->	$\frac{0.942}{0.942}$
13)	$\frac{52}{134} > \frac{134}{0.388}$	186.54%	->	$\frac{149}{332}$
		147.76%	->	$\frac{0.449}{0.449}$
14)	$\frac{80}{332} > \frac{332}{0.241}$	90.48%	<-	$\frac{42}{189}$
		75.66%	<-	$\frac{0.222}{0.222}$
15)	$\frac{257}{183} > \frac{183}{1.404}$	0.78%	<-	$\frac{255}{173}$
		5.78%	<-	$\frac{1.474}{1.474}$

1)

$$\begin{array}{r} 17 \\ \times 15 \\ \hline 15 & 75 \\ & 48 \\ \hline & 50 \\ & 237 \\ \hline & 175 \end{array}$$

_____ > _____ > _____ > _____

6)

$$\begin{array}{r} 121 \\ \times 119 \\ \hline & 119 \\ & 121 \\ \hline & 289 \\ & 296 \end{array}$$

2)

$$\begin{array}{r} 99 \\ \times 133 \\ \hline 296 \\ 323 \\ \hline 97 \\ 71 \\ \hline 72 \end{array}$$

_____ > _____ > _____ > _____

8)

$$\begin{array}{r} 54 \\ \times 155 \\ \hline & 155 \\ & 54 \\ \hline & 86 \\ & 273 \end{array}$$

3)

$$\begin{array}{r} 288 \\ \times 243 \\ \hline 261 \\ 208 \\ \hline 94 \\ 65 \\ \hline 165 \\ 145 \end{array}$$

_____ > _____ > _____ > _____

9)

$$\begin{array}{r} 135 \\ \times 120 \\ \hline & 120 \\ & 135 \\ \hline & 323 \\ & 249 \end{array}$$

4)

$$\begin{array}{r} 616 \\ \times 692 \\ \hline 483 \\ 499 \\ \hline 982 \\ 847 \\ \hline 468 \\ 430 \end{array}$$

_____ > _____ > _____ > _____

10)

$$\begin{array}{r} 161 \\ \times 298 \\ \hline & 298 \\ & 161 \\ \hline & 186 \\ & 301 \end{array}$$

5)

$$\begin{array}{r} 652 \\ \times 623 \\ \hline 572 \\ 580 \\ \hline 686 \\ 907 \\ \hline 791 \\ 922 \end{array}$$

_____ > _____ > _____ > _____

11)

$$\begin{array}{r} 159 \\ \times 71 \\ \hline & 71 \\ & 159 \\ \hline & 228 \\ & 88 \end{array}$$

12)

$$\begin{array}{r} 39 \\ \times 214 \\ \hline & 214 \\ & 39 \\ \hline & 37 \\ & 203 \end{array}$$

13)

$$\begin{array}{r} 244 \\ \times 221 \\ \hline & 221 \\ & 244 \\ \hline & 311 \\ & 321 \end{array}$$

14)

$$\begin{array}{r} 143 \\ \times 125 \\ \hline & 125 \\ & 143 \\ \hline & 215 \\ & 182 \end{array}$$

15)

$$\begin{array}{r} 219 \\ \times 321 \\ \hline & 321 \\ & 219 \\ \hline & 106 \\ & 152 \end{array}$$

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{75}{48} > \frac{237}{175} > \frac{59}{50} > \frac{17}{15}$		
1.563	1.354	1.180	1.133

2)	$\frac{72}{71} > \frac{296}{323} > \frac{83}{97} > \frac{99}{133}$		
1.014	0.916	0.856	0.744

3)	$\frac{94}{65} > \frac{261}{208} > \frac{288}{243} > \frac{165}{145}$		
1.446	1.255	1.185	1.138

4)	$\frac{982}{847} > \frac{468}{430} > \frac{483}{499} > \frac{616}{692}$		
1.159	1.088	0.968	0.890

5)	$\frac{652}{623} > \frac{572}{580} > \frac{791}{922} > \frac{686}{907}$		
1.047	0.986	0.858	0.756

6)	121	138.84%	289
	119	->	296
	1.017	->	0.976
		148.74%	
7)	71	51.06%	47
	205	<-	134
	0.346	<-	0.351
		52.99%	
8)	54	59.26%	86
	155	->	273
	0.348	->	0.315
		76.13%	
9)	135	139.26%	323
	120	->	249
	1.125	->	1.297
		107.50%	
10)	161	15.53%	186
	298	->	301
	0.540	->	0.618
		1.01%	
11)	159	43.40%	228
	71	->	88
	2.239	->	2.591
		23.94%	
12)	39	5.41%	37
	214	<-	203
	0.182	<-	0.182
		5.42%	
13)	244	27.46%	311
	221	->	321
	1.104	->	0.969
		45.25%	
14)	143	50.35%	215
	125	->	182
	1.144	->	1.181
		45.60%	
15)	219	106.60%	106
	321	<-	152
	0.682	<-	0.697
		111.18%	

1)

314	102	321	277
141	41	171	136
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

172	_____	116
313	_____	211
<hr/>		

7)

50	_____	230
62	_____	288
<hr/>		

2)

30	176	35	186
70	325	73	313
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

72	_____	257
79	_____	306
<hr/>		

9)

259	_____	165
285	_____	164
<hr/>		

3)

159	261	82	93
222	273	102	111
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

323	_____	296
334	_____	276
<hr/>		

11)

23	_____	47
91	_____	208
<hr/>		

4)

983	262	940	755
921	260	780	794
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

12)

164	_____	97
329	_____	177
<hr/>		

5)

59	282	922	846
76	316	874	889
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)
$\frac{102}{41} > \frac{314}{141} > \frac{277}{136} > \frac{321}{171}$
2.488
2.227
2.037
1.877

2)
$\frac{186}{313} > \frac{176}{325} > \frac{35}{73} > \frac{30}{70}$
0.594
0.542
0.479
0.429

3)
$\frac{261}{273} > \frac{93}{111} > \frac{82}{102} > \frac{159}{222}$
0.956
0.838
0.804
0.716

4)
$\frac{940}{780} > \frac{983}{921} > \frac{262}{260} > \frac{755}{794}$
1.205
1.067
1.008
0.951

5)
$\frac{922}{874} > \frac{846}{889} > \frac{282}{316} > \frac{59}{76}$
1.055
0.952
0.892
0.776

6)	$\frac{172}{313}$	48.28%	116
	0.550	<-	211
	0.550	48.34%	
		360.00%	
7)	$\frac{50}{62}$	->	230
	0.806	->	288
	0.799	364.52%	
		256.94%	
8)	$\frac{72}{79}$	->	257
	0.911	->	306
	0.840	287.34%	
		56.97%	
9)	$\frac{259}{285}$	<-	165
	0.909	<-	164
	1.006	73.78%	
		9.12%	
10)	$\frac{323}{334}$	<-	296
	0.967	<-	276
	1.072	21.01%	
		104.35%	
11)	$\frac{23}{91}$	->	47
	0.253	->	208
	0.226	128.57%	
		69.07%	
12)	$\frac{164}{329}$	<-	97
	0.498	<-	177
	0.548	85.88%	
		30.12%	
13)	$\frac{249}{191}$	->	324
	1.304	->	224
	1.446	17.28%	
		71.70%	
14)	$\frac{159}{126}$	->	273
	1.262	->	196
	1.393	55.56%	
		0.00%	
15)	$\frac{191}{314}$	->	191
	0.608	->	336
	0.568	7.01%	

1)

60	322	235	233
42	280	196	175
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

6)

89		182
80		157
<hr/> <hr/>		

2)

186	262	254	88
195	256	304	79
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

8)

330		231
266		197
<hr/> <hr/>		

3)

336	307	242	276
324	330	206	321
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

10)

151		298
78		151
<hr/> <hr/>		

4)

740	490	950	334
463	288	711	235
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

5)

638	428	237	406
298	169	119	180
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

13)

122		87
310		242
<hr/> <hr/>		

14)

143		264
97		183
<hr/> <hr/>		

15)

202		135
86		64
<hr/> <hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{60}{42} > \frac{233}{175} > \frac{235}{196} > \frac{322}{280}$
1.429	1.331
1.199	1.150

2)	$\frac{88}{79} > \frac{262}{256} > \frac{186}{195} > \frac{254}{304}$
1.114	1.023
0.954	0.836

3)	$\frac{242}{206} > \frac{336}{324} > \frac{307}{330} > \frac{276}{321}$
1.175	1.037
0.930	0.860

4)	$\frac{490}{288} > \frac{740}{463} > \frac{334}{235} > \frac{950}{711}$
1.701	1.598
1.421	1.336

5)	$\frac{428}{169} > \frac{406}{180} > \frac{638}{298} > \frac{237}{119}$
2.533	2.256
2.141	1.992

6)	$\frac{89}{80}$	104.49% > 182
	1.113	96.25% > 157
7)	$\frac{254}{244}$	104.84% < 124
	1.041	110.34% < 116
8)	$\frac{330}{266}$	42.86% < 231
	1.241	35.03% < 197
9)	$\frac{291}{286}$	38.57% < 210
	1.017	29.41% < 221
10)	$\frac{151}{78}$	97.35% > 298
	1.936	93.59% > 151
11)	$\frac{166}{201}$	4.82% > 174
	0.826	0.50% > 202
12)	$\frac{146}{237}$	54.11% > 225
	0.616	35.86% > 322
13)	$\frac{122}{310}$	40.23% < 87
	0.394	28.10% < 242
14)	$\frac{143}{97}$	84.62% > 264
	1.474	88.66% > 183
15)	$\frac{202}{86}$	49.63% < 135
	2.349	34.38% < 64

1)

169	160	130	179
224	195	183	205
<hr/>			
_____ > _____ > _____ > _____			

6)

221		326
191		299
<hr/>		

2)

127	119	142	14
266	226	331	25
<hr/>			
_____ > _____ > _____ > _____			

8)

217		295
146		218
<hr/>		

3)

193	155	73	221
272	295	122	332
<hr/>			
_____ > _____ > _____ > _____			

10)

299		191
250		166
<hr/>		

4)

901	247	908	892
572	143	660	679
<hr/>			
_____ > _____ > _____ > _____			

12)

231		173
188		159
<hr/>		

5)

433	750	353	702
696	967	535	967
<hr/>			
_____ > _____ > _____ > _____			

13)

263		233
268		239
<hr/>		

14)

195		285
113		168
<hr/>		

15)

289		126
330		163
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
179	>	160	>	169	>	130
205		195		224		183
0.873		0.821		0.754		0.710

2)						
14	>	119	>	127	>	142
25		226		266		331
0.560		0.527		0.477		0.429

3)						
193	>	221	>	73	>	155
272		332		122		295
0.710		0.666		0.598		0.525

4)						
247	>	901	>	908	>	892
143		572		660		679
1.727		1.575		1.376		1.314

5)						
750	>	702	>	353	>	433
967		967		535		696
0.776		0.726		0.660		0.622

6)	221	47.51%	326
	191	->	299
	1.157	56.54%	1.090
7)	322	22.90%	262
	202	<-	167
	1.594	20.96%	1.569
8)	217	35.94%	295
	146	->	218
	1.486	49.32%	1.353
9)	50	560.00%	330
	30	->	225
	1.667	650.00%	1.467
10)	299	56.54%	191
	250	<-	166
	1.196	50.60%	1.151
11)	267	181.05%	95
	230	<-	87
	1.161	164.37%	1.092
12)	231	33.53%	173
	188	<-	159
	1.229	18.24%	1.088
13)	263	12.88%	233
	268	<-	239
	0.981	12.13%	0.975
14)	195	46.15%	285
	113	->	168
	1.726	48.67%	1.696
15)	289	129.37%	126
	330	<-	163
	0.876	102.45%	0.773

1)

236	276	155	215
313	280	180	264
<hr/>			
_____ > _____ > _____ > _____			

6)

290		304
146		165
<hr/>		

2)

222	134	69	143
219	146	72	166
<hr/>			
_____ > _____ > _____ > _____			

8)

216		327
184		269
<hr/>		

3)

101	132	138	211
95	109	151	216
<hr/>			
_____ > _____ > _____ > _____			

10)

303		292
198		183
<hr/>		

4)

289	503	131	377
313	570	118	366
<hr/>			
_____ > _____ > _____ > _____			

12)

275		101
245		79
<hr/>		

5)

577	745	955	572
418	648	911	465
<hr/>			
_____ > _____ > _____ > _____			

13)

12		12
58		55
<hr/>		

14)

159		132
164		124
<hr/>		

15)

219		252
207		264
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{276}{280} > \frac{155}{180} > \frac{215}{264} > \frac{236}{313}$			
0.986	0.861	0.814	0.754

2)			
$\frac{222}{219} > \frac{69}{72} > \frac{134}{146} > \frac{143}{166}$			
1.014	0.958	0.918	0.861

3)			
$\frac{132}{109} > \frac{101}{95} > \frac{211}{216} > \frac{138}{151}$			
1.211	1.063	0.977	0.914

4)			
$\frac{131}{118} > \frac{377}{366} > \frac{289}{313} > \frac{503}{570}$			
1.110	1.030	0.923	0.882

5)			
$\frac{577}{418} > \frac{572}{465} > \frac{745}{648} > \frac{955}{911}$			
1.380	1.230	1.150	1.048

6)	290	4.83%	304
	146	->	165
	1.986	13.01%	1.842
7)	30	240.00%	102
	43	->	146
	0.698	239.53%	0.699
8)	216	51.39%	327
	184	->	269
	1.174	46.20%	1.216
9)	211	177.63%	76
	206	<-	79
	1.024	160.76%	0.962
10)	303	3.77%	292
	198	<-	183
	1.530	8.20%	1.596
11)	316	61.22%	196
	196	<-	120
	1.612	63.33%	1.633
12)	275	172.28%	101
	245	<-	79
	1.122	210.13%	1.278
13)	12	0.00%	12
	58	->	55
	0.207	5.45%	0.218
14)	159	20.45%	132
	164	<-	124
	0.970	32.26%	1.065
15)	219	15.07%	252
	207	->	264
	1.058	27.54%	0.955

1)

298	186	125	272
234	197	106	256
<hr/>			
_____ > _____ > _____ > _____			

6)

294		316
138		164
<hr/>		

2)

83	132	246	155
121	202	331	259
<hr/>			
_____ > _____ > _____ > _____			

8)

192		252
150		198
<hr/>		

3)

228	330	71	292
121	184	43	196
<hr/>			
_____ > _____ > _____ > _____			

10)

216		196
303		238
<hr/>		

4)

958	751	878	612
588	568	608	482
<hr/>			
_____ > _____ > _____ > _____			

12)

138		329
149		324
<hr/>		

5)

358	627	766	725
272	690	675	689
<hr/>			
_____ > _____ > _____ > _____			

14)

212		164
328		284
<hr/>		

15)

106		42
273		102
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
298	>	125	>	272	>	186
234		106		256		197
1.274		1.179		1.063		0.944

2)						
246	>	83	>	132	>	155
331		121		202		259
0.743		0.686		0.653		0.598

3)						
228	>	330	>	71	>	292
121		184		43		196
1.884		1.793		1.651		1.490

4)						
958	>	878	>	751	>	612
588		608		568		482
1.629		1.444		1.322		1.270

5)						
358	>	766	>	725	>	627
272		675		689		690
1.316		1.135		1.052		0.909

6)	294	7.48%	316
	138	->	164
	2.130	18.84%	1.927
7)	254	12.60%	286
	259	->	259
	0.981	0.00%	1.104
8)	192	31.25%	252
	150	->	198
	1.280	32.00%	1.273
9)	180	22.22%	220
	90	->	98
	2.000	8.89%	2.245
10)	216	10.20%	196
	303	<-	238
	0.713	27.31%	0.824
11)	26	65.38%	43
	183	->	312
	0.142	70.49%	0.138
12)	138	138.41%	329
	149	->	324
	0.926	117.45%	1.015
13)	325	3.83%	313
	315	<-	262
	1.032	20.23%	1.195
14)	212	29.27%	164
	328	<-	284
	0.646	15.49%	0.577
15)	106	152.38%	42
	273	<-	102
	0.388	167.65%	0.412

1)

269	153	234	234
311	201	253	325
<hr/>			
_____ > _____ > _____ > _____			

6)

126	_____	47
324	_____	108
<hr/>		

2)

269	245	227	322
240	286	194	328
<hr/>			
_____ > _____ > _____ > _____			

8)

166	_____	196
253	_____	269
<hr/>		

3)

185	332	250	47
185	263	261	41
<hr/>			
_____ > _____ > _____ > _____			

10)

204	_____	170
132	_____	103
<hr/>		

4)

202	306	616	325
393	538	967	463
<hr/>			
_____ > _____ > _____ > _____			

12)

250	_____	266
186	_____	204
<hr/>		

5)

956	356	874	881
987	336	734	699
<hr/>			
_____ > _____ > _____ > _____			

14)

50	_____	105
82	_____	189
<hr/>		

15)

232	_____	101
323	_____	128
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{234}{253} > \frac{269}{311} > \frac{153}{201} > \frac{234}{325}$
234	269
253	311
0.925	0.865
0.761	0.720

2)	$\frac{227}{194} > \frac{269}{240} > \frac{322}{328} > \frac{245}{286}$
227	269
194	240
1.170	1.121
0.982	0.857

3)	$\frac{332}{263} > \frac{47}{41} > \frac{185}{185} > \frac{250}{261}$
332	47
263	41
1.262	1.146
1.000	0.958

4)	$\frac{325}{463} > \frac{616}{967} > \frac{306}{538} > \frac{202}{393}$
325	616
463	967
0.702	0.637
0.569	0.514

5)	$\frac{881}{699} > \frac{874}{734} > \frac{356}{336} > \frac{956}{987}$
881	874
699	734
1.260	1.191
1.060	0.969

6)	$\frac{126}{324}$	168.09%	47
	0.389	<-	108
	200.00%	<-	0.435
	91.86%	<-	172
7)	$\frac{330}{276}$	<-	125
	1.196	<-	1.376
	120.80%	<-	
8)	$\frac{166}{253}$	18.07%	196
	0.656	->	269
	6.32%	->	0.729
9)	$\frac{281}{309}$	18.07%	238
	0.909	<-	261
	18.39%	<-	0.912
10)	$\frac{204}{132}$	20.00%	170
	1.545	<-	103
	28.16%	<-	1.650
11)	$\frac{288}{307}$	48.45%	194
	0.938	<-	214
	43.46%	<-	0.907
12)	$\frac{250}{186}$	6.40%	266
	1.344	->	204
	9.68%	->	1.304
13)	$\frac{130}{233}$	12.31%	146
	0.558	->	250
	7.30%	->	0.584
14)	$\frac{50}{82}$	110.00%	105
	0.610	->	189
	130.49%	->	0.556
15)	$\frac{232}{323}$	129.70%	101
	0.718	<-	128
	152.34%	<-	0.789

1)

26	335	183	222
20	311	151	230
<hr/>			
_____ >	_____ >	_____ >	_____

6)

143	<input type="text"/>	113
330	<input type="text"/>	241
<hr/>		

2)

333	167	316	246
283	124	197	166
<hr/>			
_____ >	_____ >	_____ >	_____

8)

241	<input type="text"/>	179
297	<input type="text"/>	229
<hr/>		

3)

272	273	286	303
252	311	240	316
<hr/>			
_____ >	_____ >	_____ >	_____

9)

280	<input type="text"/>	80
296	<input type="text"/>	81
<hr/>		

4)

915	91	905	607
577	48	548	430
<hr/>			
_____ >	_____ >	_____ >	_____

10)

101	<input type="text"/>	196
87	<input type="text"/>	183
<hr/>		

5)

478	708	909	218
635	772	936	256
<hr/>			
_____ >	_____ >	_____ >	_____

11)

313	<input type="text"/>	134
293	<input type="text"/>	118
<hr/>		

12)

289	<input type="text"/>	291
81	<input type="text"/>	81
<hr/>		

13)

315	<input type="text"/>	108
142	<input type="text"/>	49
<hr/>		

14)

42	<input type="text"/>	111
120	<input type="text"/>	308
<hr/>		

15)

157	<input type="text"/>	209
293	<input type="text"/>	336
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)			
$\frac{26}{20} > \frac{183}{151} > \frac{335}{311} > \frac{222}{230}$			
1.300	1.212	1.077	0.965

2)			
$\frac{316}{197} > \frac{246}{166} > \frac{167}{124} > \frac{333}{283}$			
1.604	1.482	1.347	1.177

3)			
$\frac{286}{240} > \frac{272}{252} > \frac{303}{316} > \frac{273}{311}$			
1.192	1.079	0.959	0.878

4)			
$\frac{91}{48} > \frac{905}{548} > \frac{915}{577} > \frac{607}{430}$			
1.896	1.651	1.586	1.412

5)			
$\frac{909}{936} > \frac{708}{772} > \frac{218}{256} > \frac{478}{635}$			
0.971	0.917	0.852	0.753

6)	$\frac{143}{330}$	26.55%	113
	0.433	<-	241
7)	$\frac{108}{335}$	36.93%	62
	0.322	<-	168
8)	$\frac{241}{297}$	74.19%	179
	0.811	<-	229
9)	$\frac{280}{296}$	34.64%	80
	0.946	<-	81
10)	$\frac{101}{87}$	250.00%	196
	1.161	<-	183
11)	$\frac{313}{293}$	94.06%	134
	1.068	<-	118
12)	$\frac{289}{81}$	133.58%	291
	3.568	<-	81
13)	$\frac{315}{142}$	0.69%	108
	2.218	<-	49
14)	$\frac{42}{120}$	191.67%	2.204
	0.350	<-	
15)	$\frac{157}{293}$	164.29%	111
	0.536	<-	308
		156.67%	0.360
		33.12%	209
		>	336
		14.68%	0.622

1)

182	189	222	149
213	205	285	212
_____ > _____ > _____ > _____			

6)

212		64
284		79

2)

73	192	144	119
168	338	311	243
_____ > _____ > _____ > _____			

8)

189		189
269		297

3)

331	248	120	330
196	126	68	207
_____ > _____ > _____ > _____			

10)

306		226
171		125

4)

633	268	253	281
971	386	425	530
_____ > _____ > _____ > _____			

11)

306		195
301		218

5)

609	734	653	444
929	941	953	740
_____ > _____ > _____ > _____			

13)

183		234
35		51

14)

149		105
134		91

15)

160		149
180		167

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{189}{205} > \frac{182}{213} > \frac{222}{285} > \frac{149}{212}$	0.922	0.854	0.779	0.703
----	---	-------	-------	-------	-------

2)	$\frac{192}{338} > \frac{119}{243} > \frac{144}{311} > \frac{73}{168}$	0.568	0.490	0.463	0.435
----	--	-------	-------	-------	-------

3)	$\frac{248}{126} > \frac{120}{68} > \frac{331}{196} > \frac{330}{207}$	1.968	1.765	1.689	1.594
----	--	-------	-------	-------	-------

4)	$\frac{268}{386} > \frac{633}{971} > \frac{253}{425} > \frac{281}{530}$	0.694	0.652	0.595	0.530
----	---	-------	-------	-------	-------

5)	$\frac{734}{941} > \frac{653}{953} > \frac{609}{929} > \frac{444}{740}$	0.780	0.685	0.656	0.600
----	---	-------	-------	-------	-------

6)	$\frac{212}{284}$	231.25%	<-	64	79
	0.746	259.49%	<-	0.810	
7)	$\frac{203}{172}$	9.85%	->	223	211
	1.180	22.67%	->	1.057	
8)	$\frac{189}{269}$	0.00%	->	189	297
	0.703	10.41%	->	0.636	
9)	$\frac{193}{160}$	14.51%	->	221	162
	1.206	1.25%	->	1.364	
10)	$\frac{306}{171}$	35.40%	<-	226	125
	1.789	36.80%	<-	1.808	
11)	$\frac{306}{301}$	56.92%	<-	195	218
	1.017	38.07%	<-	0.894	
12)	$\frac{86}{90}$	126.74%	->	195	201
	0.956	123.33%	->	0.970	
13)	$\frac{183}{35}$	27.87%	->	234	51
	5.229	45.71%	->	4.588	
14)	$\frac{149}{134}$	41.90%	<-	105	91
	1.112	47.25%	<-	1.154	
15)	$\frac{160}{180}$	7.38%	<-	149	167
	0.889	7.78%	<-	0.892	

1)

202	136	182	205
310	187	232	231
<hr/>			
_____ > _____ > _____ > _____			

6)

293		171
311		190
<hr/>		

2)

210	317	113	256
129	232	78	148
<hr/>			
_____ > _____ > _____ > _____			

8)

308		280
186		156
<hr/>		

3)

190	311	283	203
160	324	219	185
<hr/>			
_____ > _____ > _____ > _____			

10)

128		163
156		215
<hr/>		

4)

881	593	798	647
750	675	743	667
<hr/>			
_____ > _____ > _____ > _____			

12)

195		152
265		211
<hr/>		

5)

565	628	358	764
972	943	476	883
<hr/>			
_____ > _____ > _____ > _____			

13)

105		107
104		109
<hr/>		

14)

30		93
23		81
<hr/>		

15)

231		119
328		183
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{205}{231} > \frac{182}{232} > \frac{136}{187} > \frac{202}{310}$
	0.887 0.784 0.727 0.652

2)	$\frac{256}{148} > \frac{210}{129} > \frac{113}{78} > \frac{317}{232}$
	1.730 1.628 1.449 1.366

3)	$\frac{283}{219} > \frac{190}{160} > \frac{203}{185} > \frac{311}{324}$
	1.292 1.188 1.097 0.960

4)	$\frac{881}{750} > \frac{798}{743} > \frac{647}{667} > \frac{593}{675}$
	1.175 1.074 0.970 0.879

5)	$\frac{764}{883} > \frac{358}{476} > \frac{628}{943} > \frac{565}{972}$
	0.865 0.752 0.666 0.581

6)	$\frac{293}{311} < \frac{171}{190}$
	0.942 0.900
7)	$\frac{218}{199} < \frac{180}{146}$
	1.095 1.233
8)	$\frac{308}{186} < \frac{280}{156}$
	1.656 1.795
9)	$\frac{156}{294} > \frac{174}{328}$
	0.531 0.530
10)	$\frac{128}{156} > \frac{163}{215}$
	0.821 0.758
11)	$\frac{212}{101} > \frac{235}{108}$
	2.099 2.176
12)	$\frac{195}{265} > \frac{152}{211}$
	0.736 0.720
13)	$\frac{105}{104} > \frac{107}{109}$
	1.010 0.982
14)	$\frac{30}{23} > \frac{93}{81}$
	1.304 1.148
15)	$\frac{231}{328} > \frac{119}{183}$
	0.704 0.650

1)

255	270	277	37
236	219	200	25
<hr/>			
_____ > _____ > _____ > _____			

6)

300	_____	105
158	_____	49
<hr/>		

2)

220	329	203	282
224	311	160	246
<hr/>			
_____ > _____ > _____ > _____			

8)

103	_____	141
128	_____	189
<hr/>		

3)

224	124	199	173
197	119	240	180
<hr/>			
_____ > _____ > _____ > _____			

10)

185	_____	271
149	_____	208
<hr/>		

4)

590	713	840	597
590	901	936	712
<hr/>			
_____ > _____ > _____ > _____			

11)

154	_____	232
51	_____	83
<hr/>		

5)

658	226	425	884
817	297	438	999
<hr/>			
_____ > _____ > _____ > _____			

13)

41	_____	73
150	_____	231
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{37}{25} > \frac{277}{200} > \frac{270}{219} > \frac{255}{236}$
	1.480 1.385 1.233 1.081

2)	$\frac{203}{160} > \frac{282}{246} > \frac{329}{311} > \frac{220}{224}$
	1.269 1.146 1.058 0.982

3)	$\frac{224}{197} > \frac{124}{119} > \frac{173}{180} > \frac{199}{240}$
	1.137 1.042 0.961 0.829

4)	$\frac{590}{590} > \frac{840}{936} > \frac{597}{712} > \frac{713}{901}$
	1.000 0.897 0.838 0.791

5)	$\frac{425}{438} > \frac{884}{999} > \frac{658}{817} > \frac{226}{297}$
	0.970 0.885 0.805 0.761

6)	$\frac{300}{158}$	185.71% <- 1.899 222.45%	105 49 2.143
7)	$\frac{107}{162}$	117.76% -> 0.660 98.15%	233 321 0.726
8)	$\frac{103}{128}$	36.89% -> 0.805 47.66%	141 189 0.746
9)	$\frac{163}{190}$	7.95% <- 0.858 24.18%	151 153 0.987
10)	$\frac{185}{149}$	46.49% -> 1.242 39.60%	271 208 1.303
11)	$\frac{154}{51}$	50.65% -> 3.020 62.75%	232 83 2.795
12)	$\frac{85}{240}$	63.46% <- 0.354 88.98%	52 127 0.409
13)	$\frac{41}{150}$	78.05% -> 0.273 54.00%	73 231 0.316
14)	$\frac{100}{48}$	221.00% -> 2.083 237.50%	321 162 1.981
15)	$\frac{279}{89}$	6.09% -> 3.135 20.22%	296 107 2.766

1)

267	340	278	71
152	226	138	45
<hr/>			
_____ > _____ > _____ > _____			

6)

228		133
303		153
<hr/>		

2)

243	338	188	253
105	160	103	97
<hr/>			
_____ > _____ > _____ > _____			

8)

324		213
146		89
<hr/>		

3)

187	252	184	176
259	290	289	221
<hr/>			
_____ > _____ > _____ > _____			

9)

81		331
60		240
<hr/>		

4)

991	561	284	920
592	313	148	427
<hr/>			
_____ > _____ > _____ > _____			

10)

218		115
211		97
<hr/>		

5)

314	500	484	542
461	866	901	864
<hr/>			
_____ > _____ > _____ > _____			

11)

305		212
187		137
<hr/>		

12)

322		96
335		89
<hr/>		

13)

207		273
116		162
<hr/>		

14)

161		265
104		154
<hr/>		

15)

332		49
133		20
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
278	>	267	>	71	>	340
138		152		45		226
2.014		1.757		1.578		1.504

2)						
253	>	243	>	338	>	188
97		105		160		103
2.608		2.314		2.113		1.825

3)						
252	>	176	>	187	>	184
290		221		259		289
0.869		0.796		0.722		0.637

4)						
920	>	284	>	561	>	991
427		148		313		592
2.155		1.919		1.792		1.674

5)						
314	>	542	>	500	>	484
461		864		866		901
0.681		0.627		0.577		0.537

6)	228	71.43%	133
	303	<-	153
	0.752	98.04%	0.869
7)	246	583.33%	36
	334	<-	49
	0.737	581.63%	0.735
8)	324	52.11%	213
	146	<-	89
	2.219	64.04%	2.393
9)	81	308.64%	331
	60	->	240
	1.350	300.00%	1.379
10)	218	89.57%	115
	211	<-	97
	1.033	117.53%	1.186
11)	305	43.87%	212
	187	<-	137
	1.631	36.50%	1.547
12)	322	235.42%	96
	335	<-	89
	0.961	276.40%	1.079
13)	207	31.88%	273
	116	->	162
	1.784	39.66%	1.685
14)	161	64.60%	265
	104	->	154
	1.548	48.08%	1.721
15)	332	577.55%	49
	133	<-	20
	2.496	565.00%	2.450

1)

78	166	146	132
173	328	256	202
<hr/>			
_____ > _____ > _____ > _____			

6)

273		240
328		285
<hr/>		

2)

24	270	30	264
14	136	20	201
<hr/>			
_____ > _____ > _____ > _____			

8)

311		176
171		84
<hr/>		

3)

233	77	257	341
204	82	305	340
<hr/>			
_____ > _____ > _____ > _____			

10)

331		224
148		89
<hr/>		

4)

999	994	499	342
714	823	458	357
<hr/>			
_____ > _____ > _____ > _____			

12)

51		68
107		148
<hr/>		

5)

650	905	427	331
757	969	568	420
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)

$$\frac{132}{202} > \frac{146}{256} > \frac{166}{328} > \frac{78}{173}$$

0.653	0.570	0.506	0.451
-------	-------	-------	-------

2)

$$\frac{270}{136} > \frac{24}{14} > \frac{30}{20} > \frac{264}{201}$$

1.985	1.714	1.500	1.313
-------	-------	-------	-------

3)

$$\frac{233}{204} > \frac{341}{340} > \frac{77}{82} > \frac{257}{305}$$

1.142	1.003	0.939	0.843
-------	-------	-------	-------

4)

$$\frac{999}{714} > \frac{994}{823} > \frac{499}{458} > \frac{342}{357}$$

1.399	1.208	1.090	0.958
-------	-------	-------	-------

5)

$$\frac{905}{969} > \frac{650}{757} > \frac{331}{420} > \frac{427}{568}$$

0.934	0.859	0.788	0.752
-------	-------	-------	-------

6)	$\frac{273}{328}$	13.75%	240
	0.832	<-	285
		15.09%	0.842
7)	$\frac{164}{113}$	59.76%	262
	1.451	->	171
		51.33%	1.532
8)	$\frac{311}{171}$	76.70%	176
	1.819	<-	84
		103.57%	2.095
9)	$\frac{85}{14}$	10.39%	77
	6.071	<-	12
		16.67%	6.417
10)	$\frac{331}{148}$	47.77%	224
	2.236	<-	89
		66.29%	2.517
11)	$\frac{306}{319}$	23.89%	247
	0.959	<-	241
		32.37%	1.025
12)	$\frac{51}{107}$	33.33%	68
	0.477	->	148
		38.32%	0.459
13)	$\frac{282}{153}$	105.84%	137
	1.843	<-	71
		115.49%	1.930
14)	$\frac{304}{339}$	31.03%	232
	0.897	<-	240
		41.25%	0.967
15)	$\frac{128}{82}$	119.53%	281
	1.561	->	176
		114.63%	1.597

1)

203	315	307	255
209	272	300	233
<hr/>			
_____ > _____ > _____ > _____			

6)

114		138
251		263
<hr/>		

2)

301	303	212	193
287	306	230	234
<hr/>			
_____ > _____ > _____ > _____			

8)

161		71
220		109
<hr/>		

3)

77	48	103	218
27	12	29	66
<hr/>			
_____ > _____ > _____ > _____			

10)

87		231
54		140
<hr/>		

4)

314	739	867	912
216	402	554	529
<hr/>			
_____ > _____ > _____ > _____			

12)

290		140
167		83
<hr/>		

5)

364	570	704	771
292	476	615	576
<hr/>			
_____ > _____ > _____ > _____			

13)

177		245
166		213
<hr/>		

14)

224		318
98		141
<hr/>		

15)

147		125
274		216
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{315}{272} > \frac{255}{233} > \frac{307}{300} > \frac{203}{209}$		
1.158	1.094	1.023	0.971

2)	$\frac{301}{287} > \frac{303}{306} > \frac{212}{230} > \frac{193}{234}$		
1.049	0.990	0.922	0.825

3)	$\frac{48}{12} > \frac{103}{29} > \frac{218}{66} > \frac{77}{27}$		
4.000	3.552	3.303	2.852

4)	$\frac{739}{402} > \frac{912}{529} > \frac{867}{554} > \frac{314}{216}$		
1.838	1.724	1.565	1.454

5)	$\frac{771}{576} > \frac{364}{292} > \frac{570}{476} > \frac{704}{615}$		
1.339	1.247	1.197	1.145

6)	$\frac{114}{251}$	21.05%	138
	0.454	->	263
		4.78%	0.525
7)	$\frac{180}{301}$	13.92%	158
	0.598	<-	276
		9.06%	0.572
8)	$\frac{161}{220}$	126.76%	71
	0.732	<-	109
		101.83%	0.651
9)	$\frac{272}{236}$	11.40%	303
	1.153	->	242
		2.54%	1.252
10)	$\frac{87}{54}$	165.52%	231
	1.611	->	140
		159.26%	1.650
11)	$\frac{239}{178}$	20.50%	288
	1.343	->	185
		3.93%	1.557
12)	$\frac{290}{167}$	107.14%	140
	1.737	<-	83
		101.20%	1.687
13)	$\frac{177}{166}$	38.42%	245
	1.066	->	213
		28.31%	1.150
14)	$\frac{224}{98}$	41.96%	318
	2.286	->	141
		43.88%	2.255
15)	$\frac{147}{274}$	17.60%	125
	0.536	<-	216
		26.85%	0.579

1)

308	245	233	295
328	209	223	263
<hr/>			
_____ > _____ > _____ > _____			

6)

192		145
271		204
<hr/>		

2)

47	120	272	248
52	146	263	229
<hr/>			
_____ > _____ > _____ > _____			

8)

306		64
240		54
<hr/>		

3)

200	45	209	241
225	48	192	243
<hr/>			
_____ > _____ > _____ > _____			

10)

308		287
88		78
<hr/>		

4)

769	726	911	274
917	971	986	340
<hr/>			
_____ > _____ > _____ > _____			

11)

240		185
332		253
<hr/>		

5)

343	505	719	893
438	675	840	912
<hr/>			
_____ > _____ > _____ > _____			

13)

169		276
173		305
<hr/>		

14)

243		287
103		119
<hr/>		

15)

165		228
242		301
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{245}{209} > \frac{295}{263} > \frac{233}{223} > \frac{308}{328}$
1.172	1.122
1.045	0.939

2)	$\frac{248}{229} > \frac{272}{263} > \frac{47}{52} > \frac{120}{146}$
1.083	1.034
0.904	0.822

3)	$\frac{209}{192} > \frac{241}{243} > \frac{45}{48} > \frac{200}{225}$
1.089	0.992
0.938	0.889

4)	$\frac{911}{986} > \frac{769}{917} > \frac{274}{340} > \frac{726}{971}$
0.924	0.839
0.806	0.748

5)	$\frac{893}{912} > \frac{719}{840} > \frac{343}{438} > \frac{505}{675}$
0.979	0.856
0.783	0.748

6)	$\frac{192}{271} < \frac{0.708}{0.711}$
32.41%	<-
271	145
32.84%	204
61.02%	0.711
7)	$\frac{177}{187} < \frac{0.947}{0.993}$
378.13%	->
177	285
53.48%	287
344.44%	0.993
8)	$\frac{306}{240} < \frac{1.275}{1.185}$
110.53%	<-
306	64
240	54
344.44%	1.185
9)	$\frac{80}{153} < \frac{0.523}{0.469}$
88.89%	<-
80	38
153	81
88.89%	0.469
10)	$\frac{308}{88} < \frac{3.500}{3.679}$
7.32%	<-
308	287
88	78
12.82%	3.679
11)	$\frac{240}{332} < \frac{0.723}{0.731}$
29.73%	<-
240	185
332	253
31.23%	0.731
12)	$\frac{18}{111} < \frac{0.162}{0.176}$
12.50%	<-
18	16
111	91
21.98%	0.176
13)	$\frac{169}{173} < \frac{0.977}{0.905}$
63.31%	->
169	276
173	305
76.30%	0.905
14)	$\frac{243}{103} < \frac{2.359}{2.412}$
18.11%	->
243	287
103	119
15.53%	2.412
15)	$\frac{165}{242} < \frac{0.682}{0.757}$
38.18%	->
165	228
242	301
24.38%	0.757

1)

78	334	299	80
68	307	237	57
<hr/>			
_____ > _____ > _____ > _____			

6)

237		125
284		170
<hr/>		

2)

246	327	241	276
178	189	152	143
<hr/>			
_____ > _____ > _____ > _____			

8)

194		320
218		339
<hr/>		

3)

277	228	273	206
315	221	338	225
<hr/>			
_____ > _____ > _____ > _____			

10)

208		263
97		107
<hr/>		

4)

545	743	561	558
137	221	185	155
<hr/>			
_____ > _____ > _____ > _____			

11)

257		197
47		38
<hr/>		

5)

539	544	390	744
591	796	493	724
<hr/>			
_____ > _____ > _____ > _____			

13)

39		58
134		172
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{80}{57} > \frac{299}{237} > \frac{78}{68} > \frac{334}{307}$
1.404	1.262
1.147	1.088

2)	$\frac{276}{143} > \frac{327}{189} > \frac{241}{152} > \frac{246}{178}$
1.930	1.730
1.586	1.382

3)	$\frac{228}{221} > \frac{206}{225} > \frac{277}{315} > \frac{273}{338}$
1.032	0.916
0.879	0.808

4)	$\frac{545}{137} > \frac{558}{155} > \frac{743}{221} > \frac{561}{185}$
3.978	3.600
3.362	3.032

5)	$\frac{744}{724} > \frac{539}{591} > \frac{390}{493} > \frac{544}{796}$
1.028	0.912
0.791	0.683

6)	$\frac{237}{284} < \frac{284}{0.835}$
125	170
0.735	0.735
55.10%	196
177	1.107
43.50%	320
339	0.944
64.95%	223
165	1.352
88.98%	263
107	2.458
26.44%	197
38	5.184
23.68%	181
106	1.708
69.06%	58
172	0.337
48.72%	222
167	1.329
3.74%	220
164	1.341
47.27%	164

1)

129	172	281	200
171	261	340	324
<hr/>			
_____ > _____ > _____ > _____			

6)

139		266
158		294
<hr/>		

2)

341	332	270	56
298	329	298	67
<hr/>			
_____ > _____ > _____ > _____			

8)

214		291
235		275
<hr/>		

3)

184	115	64	274
153	106	44	218
<hr/>			
_____ > _____ > _____ > _____			

10)

245		136
201		104
<hr/>		

4)

741	870	809	621
935	937	916	875
<hr/>			
_____ > _____ > _____ > _____			

11)

195		240
92		129
<hr/>		

5)

554	579	811	469
356	465	690	349
<hr/>			
_____ > _____ > _____ > _____			

13)

86		144
119		204
<hr/>		

14)

170		182
277		304
<hr/>		

15)

308		248
281		201
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{281}{340} > \frac{129}{171} > \frac{172}{261} > \frac{200}{324}$			
0.826	0.754	0.659	0.617

2)			
$\frac{341}{298} > \frac{332}{329} > \frac{270}{298} > \frac{56}{67}$			
1.144	1.009	0.906	0.836

3)			
$\frac{64}{44} > \frac{274}{218} > \frac{184}{153} > \frac{115}{106}$			
1.455	1.257	1.203	1.085

4)			
$\frac{870}{937} > \frac{809}{916} > \frac{741}{935} > \frac{621}{875}$			
0.928	0.883	0.793	0.710

5)			
$\frac{554}{356} > \frac{469}{349} > \frac{579}{465} > \frac{811}{690}$			
1.556	1.344	1.245	1.175

6)	$\frac{139}{158}$	91.37%	266
	0.880	->	294
		86.08%	0.905
7)	$\frac{302}{301}$	11.03%	272
	1.003	<-	294
		2.38%	0.925
8)	$\frac{214}{235}$	35.98%	291
	0.911	->	275
		17.02%	1.058
9)	$\frac{218}{178}$	109.62%	104
	1.225	<-	81
		119.75%	1.284
10)	$\frac{245}{201}$	80.15%	136
	1.219	<-	104
		93.27%	1.308
11)	$\frac{195}{92}$	23.08%	240
	2.120	->	129
		40.22%	1.860
12)	$\frac{93}{161}$	19.23%	78
	0.578	->	141
		14.18%	0.553
13)	$\frac{86}{119}$	67.44%	144
	0.723	->	204
		71.43%	0.706
14)	$\frac{170}{277}$	7.06%	182
	0.614	->	304
		9.75%	0.599
15)	$\frac{308}{281}$	24.19%	248
	1.096	<-	201
		39.80%	1.234

1)

276	319	298	304
92	94	76	81
<hr/>			
_____ > _____ > _____ > _____			

6)

278		302
276		336
<hr/>		

2)

200	194	231	235
255	210	272	236
<hr/>			
_____ > _____ > _____ > _____			

8)

187		75
339		136
<hr/>		

3)

257	214	324	260
278	219	294	213
<hr/>			
_____ > _____ > _____ > _____			

10)

53		40
33		25
<hr/>		

4)

983	262	940	755
921	260	780	794
<hr/>			
_____ > _____ > _____ > _____			

11)

292		84
319		100
<hr/>		

5)

59	282	922	846
76	316	874	889
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
298	>	304	>	319	>	276
76		81		94		92
3.921		3.753		3.394		3.000

2)						
235	>	194	>	231	>	200
236		210		272		255
0.996		0.924		0.849		0.784

3)						
260	>	324	>	214	>	257
213		294		219		278
1.221		1.102		0.977		0.924

4)						
940	>	983	>	262	>	755
780		921		260		794
1.205		1.067		1.008		0.951

5)						
922	>	846	>	282	>	59
874		889		316		76
1.055		0.952		0.892		0.776

6)	278	8.63%	302
	276	->	336
	1.007	21.74%	0.899
7)	248	28.50%	193
	298	<-	214
	0.832	39.25%	0.902
8)	187	149.33%	75
	339	<-	136
	0.552	149.26%	0.551
9)	307	98.06%	155
	340	<-	148
	0.903	129.73%	1.047
10)	53	32.50%	40
	33	<-	25
	1.606	32.00%	1.600
11)	292	247.62%	84
	319	<-	100
	0.915	219.00%	0.840
12)	314	79.43%	175
	229	<-	115
	1.371	99.13%	1.522
13)	233	126.21%	103
	223	<-	92
	1.045	142.39%	1.120
14)	79	41.07%	56
	75	<-	52
	1.053	44.23%	1.077
15)	331	461.02%	59
	167	<-	29
	1.982	475.86%	2.034

1)

192	200	270	131
238	167	258	145
<hr/>			
_____ > _____ > _____ > _____			

6)

334		150
315		154
<hr/>		

2)

285	164	260	334
305	146	218	330
<hr/>			
_____ > _____ > _____ > _____			

8)

182		225
169		186
<hr/>		

3)

181	147	242	253
180	167	251	310
<hr/>			
_____ > _____ > _____ > _____			

10)

140		163
228		273
<hr/>		

4)

394	725	598	645
490	860	899	878
<hr/>			
_____ > _____ > _____ > _____			

12)

186		217
261		320
<hr/>		

5)

294	263	330	570
469	360	571	818
<hr/>			
_____ > _____ > _____ > _____			

13)

170		269
152		242
<hr/>		

14)

283		72
320		76
<hr/>		

15)

103		30
292		76
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
200	>	270	>	131	>	192
167		258		145		238
1.198		1.047		0.903		0.807

2)						
260	>	164	>	334	>	285
218		146		330		305
1.193		1.123		1.012		0.934

3)						
181	>	242	>	147	>	253
180		251		167		310
1.006		0.964		0.880		0.816

4)						
725	>	394	>	645	>	598
860		490		878		899
0.843		0.804		0.735		0.665

5)						
263	>	570	>	294	>	330
360		818		469		571
0.731		0.697		0.627		0.578

6)	334	122.67%	150
	315	<-	154
	1.060	104.55%	0.974
7)	63	50.00%	42
	143	<-	102
	0.441	40.20%	0.412
8)	182	23.63%	225
	169	->	186
	1.077	10.06%	1.210
9)	194	16.49%	226
	262	->	335
	0.740	27.86%	0.675
10)	140	16.43%	163
	228	->	273
	0.614	19.74%	0.597
11)	137	328.13%	32
	283	<-	73
	0.484	287.67%	0.438
12)	186	16.67%	217
	261	->	320
	0.713	22.61%	0.678
13)	170	58.24%	269
	152	->	242
	1.118	59.21%	1.112
14)	283	293.06%	72
	320	<-	76
	0.884	321.05%	0.947
15)	103	243.33%	30
	292	<-	76
	0.353	284.21%	0.395

1)

263	164	278	189
291	150	278	197
<hr/>			
_____ > _____ > _____ > _____			

6)

218		165
264		188
<hr/>		

2)

233	157	240	78
310	195	270	111
<hr/>			
_____ > _____ > _____ > _____			

8)

130		117
278		263
<hr/>		

3)

164	259	280	166
228	312	306	253
<hr/>			
_____ > _____ > _____ > _____			

10)

106		219
132		307
<hr/>		

4)

950	546	798	969
634	394	668	769
<hr/>			
_____ > _____ > _____ > _____			

11)

293		178
343		232
<hr/>		

5)

557	810	811	589
521	821	712	670
<hr/>			
_____ > _____ > _____ > _____			

13)

224		125
67		38
<hr/>		

14)

138		251
36		61
<hr/>		

15)

109		117
310		310
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
164	>	278	>	189	>	263
150	278	197	291			
1.093	1.000	0.959	0.904			

2)						
240	>	157	>	233	>	78
270	195	310	111			
0.889	0.805	0.752	0.703			

3)						
280	>	259	>	164	>	166
306	312	228	253			
0.915	0.830	0.719	0.656			

4)						
950	>	546	>	969	>	798
634	394	769	668			
1.498	1.386	1.260	1.195			

5)						
811	>	557	>	810	>	589
712	521	821	670			
1.139	1.069	0.987	0.879			

6)	218	32.12%	165
	264	<-	188
	0.826	40.43%	0.878
7)	220	30.00%	286
	241	->	334
	0.913	38.59%	0.856
8)	130	11.11%	117
	278	<-	263
	0.468	5.70%	0.445
9)	192	69.27%	325
	137	->	203
	1.401	48.18%	1.601
10)	106	106.60%	219
	132	->	307
	0.803	132.58%	0.713
11)	293	64.61%	178
	343	<-	232
	0.854	47.84%	0.767
12)	78	95.00%	40
	287	<-	146
	0.272	96.58%	0.274
13)	224	79.20%	125
	67	<-	38
	3.343	76.32%	3.289
14)	138	81.88%	251
	36	->	61
	3.833	69.44%	4.115
15)	109	7.34%	117
	310	->	310
	0.352	0.00%	0.377

1)

193	88	230	144
131	50	136	89
<hr/>			
_____ > _____ > _____ > _____			

6)

140	_____	114
307	_____	280
<hr/>		

2)

257	303	267	314
221	275	218	320
<hr/>			
_____ > _____ > _____ > _____			

8)

180	_____	217
90	_____	107
<hr/>		

3)

166	111	183	119
279	245	321	242
<hr/>			
_____ > _____ > _____ > _____			

10)

28	_____	36
210	_____	279
<hr/>		

4)

477	783	866	801
398	605	842	702
<hr/>			
_____ > _____ > _____ > _____			

11)

194	_____	170
285	_____	226
<hr/>		

5)

238	742	682	807
351	779	870	916
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{88}{50} > \frac{230}{136} > \frac{144}{89} > \frac{193}{131}$
1.760	1.691

2)	$\frac{267}{218} > \frac{257}{221} > \frac{303}{275} > \frac{314}{320}$
1.225	1.163

3)	$\frac{166}{279} > \frac{183}{321} > \frac{119}{242} > \frac{111}{245}$
0.595	0.570

4)	$\frac{783}{605} > \frac{477}{398} > \frac{801}{702} > \frac{866}{842}$
1.294	1.198

5)	$\frac{742}{779} > \frac{807}{916} > \frac{682}{870} > \frac{238}{351}$
0.953	0.881

6)	$\frac{140}{307} < \frac{114}{280}$
0.456	0.407
22.81%	<-
16.18%	->
16.02%	->
20.56%	->
18.89%	->
146.49%	->
28.57%	->
32.86%	->
14.12%	->
130.00%	->
73.86%	->
77.22%	->
21.63%	->
28.79%	->
21.67%	->
10.00%	->

1)

134	157	229	190
235	196	323	291
<hr/>			
_____ > _____ > _____ > _____			

6)

224		177
170		127
<hr/>		

2)

114	250	189	285
111	258	173	241
<hr/>			
_____ > _____ > _____ > _____			

7)

242		88
171		67
<hr/>		

3)

197	183	296	260
165	173	294	296
<hr/>			
_____ > _____ > _____ > _____			

8)

266		232
195		162
<hr/>		

4)

695	987	680	756
613	908	715	630
<hr/>			
_____ > _____ > _____ > _____			

9)

320		179
233		132
<hr/>		

5)

371	318	59	185
798	777	175	508
<hr/>			
_____ > _____ > _____ > _____			

10)

100		282
60		153
<hr/>		

11)

259		91
117		37
<hr/>		

12)

127		41
338		104
<hr/>		

13)

248		325
178		252
<hr/>		

14)

148		90
299		160
<hr/>		

15)

333		96
311		91
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
157	>	229	>	190	>	134
196		323		291		235
0.801		0.709		0.653		0.570

2)						
285	>	189	>	114	>	250
241		173		111		258
1.183		1.092		1.027		0.969

3)						
197	>	183	>	296	>	260
165		173		294		296
1.194		1.058		1.007		0.878

4)						
756	>	695	>	987	>	680
630		613		908		715
1.200		1.134		1.087		0.951

5)						
371	>	318	>	185	>	59
798		777		508		175
0.465		0.409		0.364		0.337

6)	224	26.55%	177
	170	<-	127
	1.318	33.86%	1.394
7)	242	175.00%	88
	171	<-	67
	1.415	155.22%	1.313
8)	266	14.66%	232
	195	<-	162
	1.364	20.37%	1.432
9)	320	78.77%	179
	233	<-	132
	1.373	76.52%	1.356
10)	100	182.00%	282
	60	->	153
	1.667	155.00%	1.843
11)	259	184.62%	91
	117	<-	37
	2.214	216.22%	2.459
12)	127	209.76%	41
	338	<-	104
	0.376	225.00%	0.394
13)	248	31.05%	325
	178	->	252
	1.393	41.57%	1.290
14)	148	64.44%	90
	299	<-	160
	0.495	86.88%	0.563
15)	333	246.88%	96
	311	<-	91
	1.071	241.76%	1.055

1)

212	168	113	181
325	240	207	306
<hr/>			

_____ > _____ > _____ > _____

6)

154	_____	87
220	<hr/>	

7)

63	_____	121
101	<hr/>	

2)

32	228	124	206
30	204	132	167
<hr/>			

_____ > _____ > _____ > _____

8)

137	_____	62
28	<hr/>	

9)

304	_____	206
337	<hr/>	

3)

298	232	318	339
269	193	235	270
<hr/>			

_____ > _____ > _____ > _____

10)

224	_____	131
149	<hr/>	

11)

224	_____	264
127	<hr/>	

4)

916	489	607	164
902	553	635	207
<hr/>			

_____ > _____ > _____ > _____

12)

316	_____	275
84	<hr/>	

5)

598	616	909	252
450	394	745	174
<hr/>			

_____ > _____ > _____ > _____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
168	>	212	>	181	>	113
240		325		306		207
0.700		0.652		0.592		0.546

2)						
206	>	228	>	32	>	124
167		204		30		132
1.234		1.118		1.067		0.939

3)						
318	>	339	>	232	>	298
235		270		193		269
1.353		1.256		1.202		1.108

4)						
916	>	607	>	489	>	164
902		635		553		207
1.016		0.956		0.884		0.792

5)						
616	>	252	>	598	>	909
394		174		450		745
1.563		1.448		1.329		1.220

6)	154	77.01%	87
	220	<-	138
	0.700	59.42%	0.630
7)	63	92.06%	121
	101	->	173
	0.624	71.29%	0.699
8)	137	120.97%	62
	28	<-	13
	4.893	115.38%	4.769
9)	304	47.57%	206
	337	<-	202
	0.902	66.83%	1.020
10)	224	70.99%	131
	149	<-	98
	1.503	52.04%	1.337
11)	224	17.86%	264
	127	->	164
	1.764	29.13%	1.610
12)	316	14.91%	275
	84	<-	64
	3.762	31.25%	4.297
13)	141	291.67%	36
	82	<-	23
	1.720	256.52%	1.565
14)	93	61.29%	150
	204	->	317
	0.456	55.39%	0.473
15)	186	53.23%	285
	97	->	138
	1.918	42.27%	2.065

1)

217	211	182	334
186	151	175	258
<hr/>			
_____	_____	_____	_____

6)

283	_____	289
230	_____	255
<hr/>		

2)

143	322	143	242
166	323	194	308
<hr/>			
_____	_____	_____	_____

7)

219	_____	90
302	_____	126
<hr/>		

3)

43	110	90	160
60	137	106	171
<hr/>			
_____	_____	_____	_____

8)

313	_____	205
171	_____	126
<hr/>		

4)

526	200	259	482
957	302	527	757
<hr/>			
_____	_____	_____	_____

9)

169	_____	253
254	_____	334
<hr/>		

5)

305	472	258	173
665	801	498	393
<hr/>			
_____	_____	_____	_____

10)

137	_____	266
147	_____	304
<hr/>		

11)

273	_____	221
311	_____	261
<hr/>		

12)

257	_____	195
228	_____	164
<hr/>		

13)

332	_____	308
250	_____	211
<hr/>		

14)

286	_____	330
24	_____	26
<hr/>		

15)

291	_____	146
117	_____	51
<hr/>		

For each incorrect answer,
15" is added to the time
taken to solve problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{211}{151} > \frac{334}{258} > \frac{217}{186} > \frac{182}{175}$
	1.397 1.295 1.167 1.040

2)	$\frac{322}{323} > \frac{143}{166} > \frac{242}{308} > \frac{143}{194}$
	0.997 0.861 0.786 0.737

3)	$\frac{160}{171} > \frac{90}{106} > \frac{110}{137} > \frac{43}{60}$
	0.936 0.849 0.803 0.717

4)	$\frac{200}{302} > \frac{482}{757} > \frac{526}{957} > \frac{259}{527}$
	0.662 0.637 0.550 0.491

5)	$\frac{472}{801} > \frac{258}{498} > \frac{305}{665} > \frac{173}{393}$
	0.589 0.518 0.459 0.440

6)	$\frac{283}{230} > \frac{230}{1.230}$
	2.12% -> 289 255
7)	$\frac{219}{302} < \frac{302}{0.725}$
	10.87% -> 1.133 0.714
8)	$\frac{313}{171} < \frac{171}{1.830}$
	143.33% <- 90 126
9)	$\frac{169}{254} > \frac{254}{0.665}$
	52.68% <- 205 126
10)	$\frac{137}{147} > \frac{147}{0.932}$
	35.71% <- 1.627 0.757
11)	$\frac{273}{311} < \frac{311}{0.878}$
	49.70% >-> 253 334
12)	$\frac{257}{228} < \frac{228}{1.127}$
	94.16% >-> 266 304
13)	$\frac{332}{250} < \frac{250}{1.328}$
	23.53% <-<- 221 261
14)	$\frac{286}{24} > \frac{24}{11.917}$
	19.16% >-> 195 164
15)	$\frac{291}{117} < \frac{117}{2.487}$
	31.79% <-<- 1.189 0.847
	39.02% <-<- 1.460 1.460
	7.79% <-<- 12.692 12.692
	18.48% <-<- 1.460 1.460
	15.38% <-<- 12.692 12.692
	8.33% <-<- 1.460 1.460
	99.32% <-<- 12.692 12.692
	129.41% <-<- 2.863 2.863

1)

73	69	258	171
119	101	338	265
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

6)

194	_____	116
281	_____	164
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

2)

85	66	47	110
206	134	104	202
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

8)

174	_____	234
54	_____	78
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

3)

168	205	217	282
198	203	291	319
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

10)

276	_____	79
288	_____	73
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

4)

289	789	849	538
245	826	807	490
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

11)

63	_____	190
21	_____	58
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

5)

984	495	649	955
655	393	461	610
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

12)

225	_____	175
86	_____	70
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

13)

248	_____	234
235	_____	207
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

14)

269	_____	308
177	_____	198
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

15)

211	_____	184
132	_____	99
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

For each incorrect answer,
15" is added to the time
taken to solve problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
258	>	69	>	171	>	73
338		101		265		119
0.763		0.683		0.645		0.613

2)						
110	>	66	>	47	>	85
202		134		104		206
0.545		0.493		0.452		0.413

3)						
205	>	282	>	168	>	217
203		319		198		291
1.010		0.884		0.848		0.746

4)						
289	>	538	>	849	>	789
245		490		807		826
1.180		1.098		1.052		0.955

5)						
955	>	984	>	649	>	495
610		655		461		393
1.566		1.502		1.408		1.260

6)	194	67.24%	116
	281	<-	164
	0.690	71.34%	0.707
7)	102	200.00%	34
	280	<-	84
	0.364	233.33%	0.405
8)	174	34.48%	234
	54	->	78
	3.222	44.44%	3.000
9)	191	65.45%	316
	140	->	230
	1.364	64.29%	1.374
10)	276	249.37%	79
	288	<-	73
	0.958	294.52%	1.082
11)	63	201.59%	190
	21	->	58
	3.000	176.19%	3.276
12)	225	28.57%	175
	86	<-	70
	2.616	22.86%	2.500
13)	248	5.98%	234
	235	<-	207
	1.055	13.53%	1.130
14)	269	14.50%	308
	177	->	198
	1.520	11.86%	1.556
15)	211	14.67%	184
	132	<-	99
	1.598	33.33%	1.859

1)

143	281	245	269
194	278	279	331
<hr/>			
_____ > _____ > _____ > _____			

6)

54		122
108		228
<hr/>		

2)

106	59	62	90
307	218	216	274
<hr/>			
_____ > _____ > _____ > _____			

8)

187		73
292		115
<hr/>		

3)

294	195	319	87
129	97	177	54
<hr/>			
_____ > _____ > _____ > _____			

10)

200		77
326		117
<hr/>		

4)

814	533	737	884
800	712	897	945
<hr/>			
_____ > _____ > _____ > _____			

11)

150		304
100		207
<hr/>		

5)

641	134	585	789
795	181	647	800
<hr/>			
_____ > _____ > _____ > _____			

13)

250		214
311		262
<hr/>		

14)

84		137
171		240
<hr/>		

15)

316		334
124		144
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{281}{278} > \frac{245}{279} > \frac{269}{331} > \frac{143}{194}$			
1.011	0.878	0.813	0.737

2)			
$\frac{106}{307} > \frac{90}{274} > \frac{62}{216} > \frac{59}{218}$			
0.345	0.328	0.287	0.271

3)			
$\frac{294}{129} > \frac{195}{97} > \frac{319}{177} > \frac{87}{54}$			
2.279	2.010	1.802	1.611

4)			
$\frac{814}{800} > \frac{884}{945} > \frac{737}{897} > \frac{533}{712}$			
1.018	0.935	0.822	0.749

5)			
$\frac{789}{800} > \frac{585}{647} > \frac{641}{795} > \frac{134}{181}$			
0.986	0.904	0.806	0.740

6)	$\frac{54}{108}$	125.93%	122
	0.500	->	228
		111.11%	0.535
7)	$\frac{216}{157}$	6.40%	203
	1.376	<-	135
		16.30%	1.504
8)	$\frac{187}{292}$	156.16%	73
	0.640	<-	115
		153.91%	0.635
9)	$\frac{64}{196}$	25.00%	80
	0.327	>-	268
		36.73%	0.299
10)	$\frac{200}{326}$	159.74%	77
	0.613	<-	117
		178.63%	0.658
11)	$\frac{150}{100}$	102.67%	304
	1.500	>-	207
		107.00%	1.469
12)	$\frac{253}{332}$	69.80%	149
	0.762	<-	214
		55.14%	0.696
13)	$\frac{250}{311}$	16.82%	214
	0.804	<-	262
		18.70%	0.817
14)	$\frac{84}{171}$	63.10%	214
	0.491	>-	240
		40.35%	0.571
15)	$\frac{316}{124}$	5.70%	137
	2.548	>-	334
		16.13%	144
			2.319

1)

76	151	198	139
88	141	253	146
_____ > _____ > _____ > _____			

6)

75		143
94		183

2)

284	246	335	238
120	115	170	129
_____ > _____ > _____ > _____			

8)

155		76
152		69

3)

260	267	304	305
125	116	177	162
_____ > _____ > _____ > _____			

10)

214		157
271		175

4)

434	871	914	490
405	754	945	404
_____ > _____ > _____ > _____			

12)

163		88
248		131

5)

251	231	271	150
869	913	894	431
_____ > _____ > _____ > _____			

13)

134		244
100		198

14)

332		280
199		168

15)

102		219
124		295

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
151	>	139	>	76	>	198
141		146		88		253
1.071		0.952		0.864		0.783

2)						
284	>	246	>	335	>	238
120		115		170		129
2.367		2.139		1.971		1.845

3)						
267	>	260	>	305	>	304
116		125		162		177
2.302		2.080		1.883		1.718

4)						
490	>	871	>	434	>	914
404		754		405		945
1.213		1.155		1.072		0.967

5)						
150	>	271	>	251	>	231
431		894		869		913
0.348		0.303		0.289		0.253

6)	75	90.67%	143
	94	->	183
	0.798	94.68%	0.781
7)	223	15.54%	193
	224	<-	216
	0.996	3.70%	0.894
8)	155	103.95%	76
	152	<-	69
	1.020	120.29%	1.101
9)	251	12.56%	223
	164	<-	161
	1.530	1.86%	1.385
10)	214	36.31%	157
	271	<-	175
	0.790	54.86%	0.897
11)	87	45.98%	127
	147	->	220
	0.592	49.66%	0.577
12)	163	85.23%	88
	248	<-	131
	0.657	89.31%	0.672
13)	134	82.09%	244
	100	->	198
	1.340	98.00%	1.232
14)	332	18.57%	280
	199	<-	168
	1.668	18.45%	1.667
15)	102	114.71%	219
	124	->	295
	0.823	137.90%	0.742

1)

162	143	75	227
321	257	118	331
<hr/>			
_____ > _____ > _____ > _____			

6)

130	_____	48
332	_____	116
<hr/>		

2)

279	325	177	296
254	272	204	311
<hr/>			
_____ > _____ > _____ > _____			

8)

124	_____	272
110	_____	265
<hr/>		

3)

336	26	140	234
231	20	117	217
<hr/>			
_____ > _____ > _____ > _____			

10)

127	_____	160
290	_____	321
<hr/>		

4)

533	468	529	428
778	555	832	557
<hr/>			
_____ > _____ > _____ > _____			

11)

158	_____	168
104	_____	117
<hr/>		

5)

424	412	449	554
539	571	684	637
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added to the time taken to solve problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)
$\frac{227}{331} > \frac{75}{118} > \frac{143}{257} > \frac{162}{321}$
0.686
0.636
0.556
0.505

2)
$\frac{325}{272} > \frac{279}{254} > \frac{296}{311} > \frac{177}{204}$
1.195
1.098
0.952
0.868

3)
$\frac{336}{231} > \frac{26}{20} > \frac{140}{117} > \frac{234}{217}$
1.455
1.300
1.197
1.078

4)
$\frac{468}{555} > \frac{428}{557} > \frac{533}{778} > \frac{529}{832}$
0.843
0.768
0.685
0.636

5)
$\frac{554}{637} > \frac{424}{539} > \frac{412}{571} > \frac{449}{684}$
0.870
0.787
0.722
0.656

6)	$\frac{130}{332}$	170.83%	48
	0.392	<-	116
		186.21%	0.414
7)	$\frac{279}{314}$	19.23%	234
	0.889	<-	240
		30.83%	0.975
8)	$\frac{124}{110}$	119.35%	272
	1.127	->	265
9)	$\frac{200}{300}$	76.99%	113
	0.667	<-	175
		71.43%	0.646
10)	$\frac{127}{290}$	25.98%	160
	0.438	->	321
		10.69%	0.498
11)	$\frac{158}{104}$	6.33%	168
	1.519	->	117
		12.50%	1.436
12)	$\frac{333}{187}$	95.88%	170
	1.781	<-	102
		83.33%	1.667
13)	$\frac{142}{126}$	992.31%	13
	1.127	<-	11
		#####	1.182
14)	$\frac{240}{224}$	19.58%	287
	1.071	->	237
		5.80%	1.211
15)	$\frac{190}{173}$	54.74%	294
	1.098	->	235
		35.84%	1.251

1)

179	229	222	227
156	145	162	188
<hr/>			
_____ > _____ > _____ > _____			

6)

307	_____	305
273	_____	266
<hr/>		

2)

340	196	226	282
336	221	285	242
<hr/>			
_____ > _____ > _____ > _____			

8)

156	_____	156
206	_____	185
<hr/>		

3)

123	237	271	106
73	180	219	71
<hr/>			
_____ > _____ > _____ > _____			

10)

67	_____	88
226	_____	327
<hr/>		

4)

887	835	215	754
846	718	258	796
<hr/>			
_____ > _____ > _____ > _____			

11)

21	_____	110
55	_____	321
<hr/>		

5)

231	584	359	879
304	658	435	929
<hr/>			
_____ > _____ > _____ > _____			

12)

251	_____	200
291	_____	233
<hr/>		

13)

33	_____	99
53	_____	151
<hr/>		

14)

264	_____	138
339	_____	179
<hr/>		

15)

170	_____	103
55	_____	34
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{229}{145} > \frac{222}{162} > \frac{227}{188} > \frac{179}{156}$			
1.579	1.370	1.207	1.147

2)			
$\frac{282}{242} > \frac{340}{336} > \frac{196}{221} > \frac{226}{285}$			
1.165	1.012	0.887	0.793

3)			
$\frac{123}{73} > \frac{106}{71} > \frac{237}{180} > \frac{271}{219}$			
1.685	1.493	1.317	1.237

4)			
$\frac{835}{718} > \frac{887}{846} > \frac{754}{796} > \frac{215}{258}$			
1.163	1.048	0.947	0.833

5)			
$\frac{879}{929} > \frac{584}{658} > \frac{359}{435} > \frac{231}{304}$			
0.946	0.888	0.825	0.760

6)	$\frac{307}{273}$	0.66%	305
	1.125	<-	266
		2.63%	1.147
7)	$\frac{187}{196}$	42.78%	267
	0.954	->	269
		37.24%	0.993
8)	$\frac{156}{206}$	0.00%	156
	0.757	->	185
		11.35%	0.843
9)	$\frac{121}{173}$	40.50%	170
	0.699	->	232
		34.10%	0.733
10)	$\frac{67}{226}$	31.34%	88
	0.296	->	327
		44.69%	0.269
11)	$\frac{21}{55}$	423.81%	110
	0.382	->	321
		483.64%	0.343
12)	$\frac{251}{291}$	25.50%	200
	0.863	->	233
		24.89%	0.858
13)	$\frac{33}{53}$	200.00%	99
	0.623	->	151
		184.91%	0.656
14)	$\frac{264}{339}$	91.30%	138
	0.779	->	179
		89.39%	0.771
15)	$\frac{170}{55}$	65.05%	103
	3.091	->	34
		61.76%	3.029

1)

341	332	275	184
215	245	186	148
<hr/>			
_____ > _____ > _____ > _____			

6)

130		161
49		62
<hr/>		

2)

89	106	336	219
104	102	283	225
<hr/>			
_____ > _____ > _____ > _____			

8)

330		300
254		221
<hr/>		

3)

317	220	199	165
325	258	192	205
<hr/>			
_____ > _____ > _____ > _____			

10)

153		205
203		253
<hr/>		

4)

43	569	443	614
52	790	476	911
<hr/>			
_____ > _____ > _____ > _____			

11)

237		299
186		251
<hr/>		

5)

897	971	880	717
932	857	710	661
<hr/>			
_____ > _____ > _____ > _____			

13)

288		254
131		104
<hr/>		

14)

305		233
206		139
<hr/>		

15)

142		103
333		273
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{341}{215} > \frac{275}{186} > \frac{332}{245} > \frac{184}{148}$
	1.586 1.478 1.355 1.243

2)	$\frac{336}{283} > \frac{106}{102} > \frac{219}{225} > \frac{89}{104}$
	1.187 1.039 0.973 0.856

3)	$\frac{199}{192} > \frac{317}{325} > \frac{220}{258} > \frac{165}{205}$
	1.036 0.975 0.853 0.805

4)	$\frac{443}{476} > \frac{43}{52} > \frac{569}{790} > \frac{614}{911}$
	0.931 0.827 0.720 0.674

5)	$\frac{880}{710} > \frac{971}{857} > \frac{717}{661} > \frac{897}{932}$
	1.239 1.133 1.085 0.962

6)	$\frac{130}{49} > \frac{2.653}{2.653}$
	23.85% -> 161 62
7)	$\frac{177}{56} < \frac{3.161}{3.161}$
	26.53% -> 2.597 2.923
8)	$\frac{330}{254} < \frac{1.299}{1.299}$
	55.26% -< 114 39
9)	$\frac{115}{122} > \frac{0.943}{0.943}$
	10.00% -< 300 221
10)	$\frac{153}{203} > \frac{0.754}{0.754}$
	14.93% -< 205 253
11)	$\frac{237}{186} > \frac{1.274}{1.274}$
	68.70% -> 194 209
12)	$\frac{155}{86} > \frac{1.802}{1.802}$
	71.31% -> 0.928 1.191
13)	$\frac{288}{131} < \frac{2.198}{2.198}$
	33.99% -> 299 251
14)	$\frac{305}{206} < \frac{1.481}{1.481}$
	24.63% -< 298 158
15)	$\frac{142}{333} < \frac{0.426}{0.426}$
	26.16% -> 1.886 1.676
	92.26% -> 254 104
	13.39% -< 233 139
	30.90% -< 103 273
	48.20% -< 0.377 0.426
	37.86% -< 21.98%

1)

138	202	260	284
133	145	227	215
<hr/>			
_____ > _____ > _____ > _____			

6)

152		43
203		54
<hr/>		

2)

71	171	121	229
71	213	111	254
<hr/>			
_____ > _____ > _____ > _____			

8)

310		214
340		209
<hr/>		

3)

339	254	340	275
244	198	310	230
<hr/>			
_____ > _____ > _____ > _____			

10)

61		221
101		319
<hr/>		

4)

187	137	851	406
115	92	600	301
<hr/>			
_____ > _____ > _____ > _____			

12)

150		168
338		341
<hr/>		

5)

663	740	826	643
455	347	433	386
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added to the time taken to solve problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
202	>	284	>	260	>	138
145		215		227		133
1.393		1.321		1.145		1.038

2)						
121	>	71	>	229	>	171
111		71		254		213
1.090		1.000		0.902		0.803

3)						
339	>	254	>	275	>	340
244		198		230		310
1.389		1.283		1.196		1.097

4)						
187	>	137	>	851	>	406
115		92		600		301
1.626		1.489		1.418		1.349

5)						
740	>	826	>	643	>	663
347		433		386		455
2.133		1.908		1.666		1.457

6)	152	253.49%	43
	203	<-	54
	0.749	275.93%	0.796
7)	268	7.46%	288
	196	->	232
	1.367	18.37%	1.241
8)	310	44.86%	214
	340	<-	209
	0.912	62.68%	1.024
9)	156	60.26%	250
	219	->	338
	0.712	54.34%	0.740
10)	61	262.30%	221
	101	->	319
	0.604	215.84%	0.693
11)	219	231.82%	66
	251	<-	70
	0.873	258.57%	0.943
12)	150	12.00%	168
	338	->	341
	0.444	0.89%	0.493
13)	36	608.33%	255
	23	->	152
	1.565	560.87%	1.678
14)	283	135.83%	120
	132	->	62
	2.144	112.90%	1.935
15)	133	50.38%	200
	80	->	137
	1.663	71.25%	1.460

1)

206	110	245	264
122	83	162	214
<hr/>			
_____ > _____ > _____ > _____			

6)

278		287
306		325
<hr/>		

2)

186	227	281	115
160	207	327	121
<hr/>			
_____ > _____ > _____ > _____			

8)

169		333
73		151
<hr/>		

3)

232	148	113	194
326	188	177	332
<hr/>			
_____ > _____ > _____ > _____			

10)

88		116
245		323
<hr/>		

4)

799	476	947	361
914	515	917	436
<hr/>			
_____ > _____ > _____ > _____			

12)

221		309
222		286
<hr/>		

5)

625	328	473	857
705	321	555	725
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)
$\frac{206}{122} > \frac{245}{162} > \frac{110}{83} > \frac{264}{214}$
1.689
1.512
1.325
1.234

2)
$\frac{186}{160} > \frac{227}{207} > \frac{115}{121} > \frac{281}{327}$
1.163
1.097
0.950
0.859

3)
$\frac{148}{188} > \frac{232}{326} > \frac{113}{177} > \frac{194}{332}$
0.787
0.712
0.638
0.584

4)
$\frac{947}{917} > \frac{476}{515} > \frac{799}{914} > \frac{361}{436}$
1.033
0.924
0.874
0.828

5)
$\frac{857}{725} > \frac{328}{321} > \frac{625}{705} > \frac{473}{555}$
1.182
1.022
0.887
0.852

6)	278	3.24%	287
	306	->	325
	0.908	6.21%	0.883
7)	159	67.37%	95
	225	<-	124
	0.707	81.45%	0.766
8)	169	97.04%	333
	73	->	151
	2.315	106.85%	2.205
9)	98	95.92%	192
	148	->	322
	0.662	117.57%	0.596
10)	88	31.82%	116
	245	->	323
	0.359	31.84%	0.359
11)	26	11.54%	29
	62	->	78
	0.419	25.81%	0.372
12)	221	39.82%	309
	222	->	286
	0.995	28.83%	1.080
13)	132	80.30%	238
	103	->	199
	1.282	93.20%	1.196
14)	131	35.11%	177
	184	->	257
	0.712	39.67%	0.689
15)	255	26.27%	322
	211	->	230
	1.209	9.00%	1.400

1)

227	200	170	299
200	253	172	327
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

236	_____	335
69	_____	89
<hr/>		

7)

204	_____	67
301	_____	109
<hr/>		

2)

190	148	192	277
125	77	114	153
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

155	_____	175
247	_____	287
<hr/>		

9)

119	_____	30
338	_____	82
<hr/>		

3)

100	171	278	227
118	166	299	287
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

130	_____	169
117	_____	157
<hr/>		

11)

58	_____	67
257	_____	258
<hr/>		

4)

222	516	804	566
164	356	479	435
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

12)

65	_____	50
305	_____	265
<hr/>		

5)

833	731	754	59
862	702	639	53
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)			
$\frac{227}{200} > \frac{170}{172} > \frac{299}{327} > \frac{200}{253}$			
1.135	0.988	0.914	0.791

2)			
$\frac{148}{77} > \frac{277}{153} > \frac{192}{114} > \frac{190}{125}$			
1.922	1.810	1.684	1.520

3)			
$\frac{171}{166} > \frac{278}{299} > \frac{100}{118} > \frac{227}{287}$			
1.030	0.930	0.847	0.791

4)			
$\frac{804}{479} > \frac{516}{356} > \frac{222}{164} > \frac{566}{435}$			
1.678	1.449	1.354	1.301

5)			
$\frac{754}{639} > \frac{59}{53} > \frac{731}{702} > \frac{833}{862}$			
1.180	1.113	1.041	0.966

6)	$\frac{236}{69}$	41.95% ->	335 89 3.764
	3.420	28.99%	
7)	$\frac{204}{301}$	204.48% <- <-	67 109 0.615
	0.678	176.15%	
8)	$\frac{155}{247}$	12.90% -> ->	175 287 0.610
	0.628	16.19%	
9)	$\frac{119}{338}$	296.67% <- <-	30 82 0.366
	0.352	312.20%	
10)	$\frac{130}{117}$	30.00% -> ->	169 157 1.076
	1.111	34.19%	
11)	$\frac{58}{257}$	15.52% -> ->	67 258 0.260
	0.226	0.39%	
12)	$\frac{65}{305}$	30.00% <- <-	50 265 0.189
	0.213	15.09%	
13)	$\frac{233}{213}$	38.69% <- <-	168 135 1.244
	1.094	57.78%	
14)	$\frac{186}{303}$	31.91% <- <-	141 235 0.600
	0.614	28.94%	
15)	$\frac{314}{265}$	53.17% <- <-	205 188 1.090
	1.185	40.96%	

1)

73	69	258	171
119	101	338	265
<hr/>			
_____ > _____ > _____ > _____			

6)

247		255
275		299
<hr/>		

2)

85	66	47	110
206	134	104	202
<hr/>			
_____ > _____ > _____ > _____			

8)

153		179
234		290
<hr/>		

3)

168	205	217	282
198	203	291	319
<hr/>			
_____ > _____ > _____ > _____			

9)

168		98
239		152
<hr/>		

4)

289	789	849	538
245	826	807	490
<hr/>			
_____ > _____ > _____ > _____			

10)

120		224
165		311
<hr/>		

5)

984	495	649	955
655	393	461	610
<hr/>			
_____ > _____ > _____ > _____			

11)

250		317
190		270
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
258	>	69	>	171	>	73
338		101		265		119
0.763		0.683		0.645		0.613

2)						
110	>	66	>	47	>	85
202		134		104		206
0.545		0.493		0.452		0.413

3)						
205	>	282	>	168	>	217
203		319		198		291
1.010		0.884		0.848		0.746

4)						
289	>	538	>	849	>	789
245		490		807		826
1.180		1.098		1.052		0.955

5)						
955	>	984	>	649	>	495
610		655		461		393
1.566		1.502		1.408		1.260

6)	247	3.24%	255
	275	->	299
	0.898	8.73%	0.853
7)	267	38.34%	193
	254	<-	189
	1.051	34.39%	1.021
8)	153	16.99%	179
	234	->	290
	0.654	23.93%	0.617
9)	168	71.43%	98
	239	<-	152
	0.703	57.24%	0.645
10)	120	86.67%	224
	165	->	311
	0.727	88.48%	0.720
11)	250	26.80%	317
	190	->	270
	1.316	42.11%	1.174
12)	245	18.93%	206
	342	<-	323
	0.716	5.88%	0.638
13)	241	37.76%	332
	229	->	333
	1.052	45.41%	0.997
14)	73	121.92%	162
	66	->	157
	1.106	137.88%	1.032
15)	136	106.06%	66
	306	<-	149
	0.444	105.37%	0.443

1)

318	154	259	279
251	153	277	252
<hr/>			
_____ > _____ > _____ > _____			

6)

166		279
164		278
<hr/>		

2)

318	301	213	235
226	164	132	157
<hr/>			
_____ > _____ > _____ > _____			

8)

333		81
84		22
<hr/>		

3)

218	142	315	136
244	170	334	136
<hr/>			
_____ > _____ > _____ > _____			

10)

263		139
194		99
<hr/>		

4)

351	209	215	434
579	316	291	812
<hr/>			
_____ > _____ > _____ > _____			

11)

57		165
124		329
<hr/>		

5)

836	436	691	519
639	391	718	415
<hr/>			
_____ > _____ > _____ > _____			

13)

225		205
254		251
<hr/>		

14)

49		100
119		266
<hr/>		

15)

148		212
216		299
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)						
318	>	279	>	154	>	259
251		252		153		277
1.267		1.107		1.007		0.935

2)						
301	>	213	>	235	>	318
164		132		157		226
1.835		1.614		1.497		1.407

3)						
136	>	315	>	218	>	142
136		334		244		170
1.000		0.943		0.893		0.835

4)						
215	>	209	>	351	>	434
291		316		579		812
0.739		0.661		0.606		0.534

5)						
836	>	519	>	436	>	691
639		415		391		718
1.308		1.251		1.115		0.962

6)	166	68.07%	279
	164	->	278
	1.012	69.51%	1.004
7)	81	186.42%	232
	105	->	261
	0.771	148.57%	0.889
8)	333	311.11%	81
	84	-<	22
	3.964	281.82%	3.682
9)	145	150.00%	58
	301	-<	121
	0.482	148.76%	0.479
10)	263	89.21%	139
	194	-<	99
	1.356	95.96%	1.404
11)	57	189.47%	165
	124	->	329
	0.460	165.32%	0.502
12)	82	307.32%	334
	59	->	231
	1.390	291.53%	1.446
13)	225	9.76%	205
	254	-<	251
	0.886	1.20%	0.817
14)	49	104.08%	100
	119	->	266
	0.412	123.53%	0.376
15)	148	43.24%	212
	216	->	299
	0.685	38.43%	0.709

1)

150	108	247	319
116	107	226	264
<hr/>			
_____	_____	_____	_____
<hr/>			

6)

216	_____	105
312	_____	161
<hr/>		

2)

236	110	256	329
263	103	211	341
<hr/>			
_____	_____	_____	_____
<hr/>			

8)

118	_____	253
157	_____	335
<hr/>		

3)

54	57	89	270
46	43	82	183
<hr/>			
_____	_____	_____	_____
<hr/>			

10)

145	_____	316
78	_____	165
<hr/>		

4)

929	768	104	696
403	280	42	240
<hr/>			
_____	_____	_____	_____
<hr/>			

12)

134	_____	238
149	_____	246
<hr/>		

5)

913	540	243	835
959	598	307	991
<hr/>			
_____	_____	_____	_____
<hr/>			

13)

68	_____	169
149	_____	330
<hr/>		

14)

58	_____	248
39	_____	180
<hr/>		

15)

182	_____	52
220	_____	64
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)

$$\frac{150}{116} > \frac{319}{264} > \frac{247}{226} > \frac{108}{107}$$

1.293	1.208	1.093	1.009
-------	-------	-------	-------

2)

$$\frac{256}{211} > \frac{110}{103} > \frac{329}{341} > \frac{236}{263}$$

1.213	1.068	0.965	0.897
-------	-------	-------	-------

3)

$$\frac{270}{183} > \frac{57}{43} > \frac{54}{46} > \frac{89}{82}$$

1.475	1.326	1.174	1.085
-------	-------	-------	-------

4)

$$\frac{696}{240} > \frac{768}{280} > \frac{104}{42} > \frac{929}{403}$$

2.900	2.743	2.476	2.305
-------	-------	-------	-------

5)

$$\frac{913}{959} > \frac{540}{598} > \frac{835}{991} > \frac{243}{307}$$

0.952	0.903	0.843	0.792
-------	-------	-------	-------

6)	216	105	105.71%
	312	161	<-
	0.692	0.652	93.79%
7)	29	138	375.86%
	31	153	->
	0.935	0.902	393.55%
8)	118	253	114.41%
	157	335	->
	0.752	0.755	113.38%
9)	274	322	17.52%
	216	224	->
	1.269	1.438	3.70%
10)	145	316	117.93%
	78	165	->
	1.859	1.915	111.54%
11)	126	151	19.84%
	92	117	->
	1.370	1.291	27.17%
12)	134	238	77.61%
	149	246	->
	0.899	0.967	65.10%
13)	68	169	148.53%
	149	330	->
	0.456	0.512	121.48%
14)	58	248	327.59%
	39	180	->
	1.487	1.378	361.54%
15)	182	52	250.00%
	220	64	<-
	0.827	0.813	243.75%

1)

$\frac{66}{96}$	$\frac{150}{200}$	$\frac{143}{175}$	$\frac{62}{103}$
-----------------	-------------------	-------------------	------------------

_____ > _____ > _____ > _____

6)

$\frac{189}{211}$	<input type="text"/>	$\frac{283}{329}$
-------------------	----------------------	-------------------

2)

$\frac{185}{108}$	$\frac{172}{124}$	$\frac{235}{147}$	$\frac{239}{127}$
-------------------	-------------------	-------------------	-------------------

_____ > _____ > _____ > _____

8)

$\frac{263}{230}$	<input type="text"/>	$\frac{172}{163}$
-------------------	----------------------	-------------------

3)

$\frac{108}{170}$	$\frac{158}{317}$	$\frac{198}{292}$	$\frac{33}{58}$
-------------------	-------------------	-------------------	-----------------

_____ > _____ > _____ > _____

9)

$\frac{97}{86}$	<input type="text"/>	$\frac{278}{240}$
-----------------	----------------------	-------------------

4)

$\frac{884}{737}$	$\frac{645}{484}$	$\frac{485}{379}$	$\frac{697}{667}$
-------------------	-------------------	-------------------	-------------------

_____ > _____ > _____ > _____

10)

$\frac{185}{262}$	<input type="text"/>	$\frac{187}{288}$
-------------------	----------------------	-------------------

5)

$\frac{901}{424}$	$\frac{882}{388}$	$\frac{408}{215}$	$\frac{883}{530}$
-------------------	-------------------	-------------------	-------------------

_____ > _____ > _____ > _____

11)

$\frac{207}{327}$	<input type="text"/>	$\frac{88}{123}$
-------------------	----------------------	------------------

12)

$\frac{99}{105}$	<input type="text"/>	$\frac{149}{177}$
------------------	----------------------	-------------------

13)

$\frac{264}{208}$	<input type="text"/>	$\frac{132}{105}$
-------------------	----------------------	-------------------

14)

$\frac{127}{154}$	<input type="text"/>	$\frac{270}{339}$
-------------------	----------------------	-------------------

15)

$\frac{221}{120}$	<input type="text"/>	$\frac{295}{162}$
-------------------	----------------------	-------------------

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{143}{175} > \frac{150}{200} > \frac{66}{96} > \frac{62}{103}$
	0.817 0.750 0.688 0.602

2)	$\frac{239}{127} > \frac{185}{108} > \frac{235}{147} > \frac{172}{124}$
	1.882 1.713 1.599 1.387

3)	$\frac{198}{292} > \frac{108}{170} > \frac{33}{58} > \frac{158}{317}$
	0.678 0.635 0.569 0.498

4)	$\frac{645}{484} > \frac{485}{379} > \frac{884}{737} > \frac{697}{667}$
	1.333 1.280 1.199 1.045

5)	$\frac{882}{388} > \frac{901}{424} > \frac{408}{215} > \frac{883}{530}$
	2.273 2.125 1.898 1.666

6)	$\frac{189}{211} > \frac{0.896}{0.860}$
	49.74% -> 283 329
7)	$\frac{184}{142} < \frac{1.296}{1.182}$
	55.92% -> 0.860 0.896
8)	$\frac{263}{230} < \frac{1.143}{1.055}$
	17.95% <- 156 132
9)	$\frac{97}{86} > \frac{1.128}{1.158}$
	52.91% <- 172 163
10)	$\frac{185}{262} > \frac{0.706}{0.649}$
	41.10% <- 186.60% 187
11)	$\frac{207}{327} < \frac{0.633}{0.715}$
	186.60% <- 288 278
12)	$\frac{99}{105} > \frac{0.943}{0.842}$
	1.08% <- 240 278
13)	$\frac{264}{208} < \frac{1.269}{1.257}$
	135.23% <- 123 88
14)	$\frac{127}{154} > \frac{0.825}{0.796}$
	50.51% <- 149 177
15)	$\frac{221}{120} > \frac{1.842}{1.821}$
	68.57% <- 105 132
	100.00% <- 0.796 1.257
	112.60% <- 339 270
	120.13% <- 0.796 295
	33.48% <- 162 221
	35.00% <- 1.821 1.842

1)

103	247	202	181
135	266	234	187
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

315		233
266		218
_____	_____	_____

2)

70	261	150	170
113	296	189	242
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

142		281
116		199
_____	_____	_____

3)

184	241	172	194
264	309	193	313
_____	_____	_____	_____

_____ > _____ > _____ > _____

9)

65		73
224		224
_____	_____	_____

4)

370	365	488	604
648	490	803	879
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

143		126
84		83
_____	_____	_____

5)

669	560	537	577
579	437	485	432
_____	_____	_____	_____

_____ > _____ > _____ > _____

11)

226		71
108		34
_____	_____	_____

12)

275		118
262		111
_____	_____	_____

13)

304		216
92		57
_____	_____	_____

14)

63		164
143		325
_____	_____	_____

15)

173		214
205		221
_____	_____	_____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{181}{187} > \frac{247}{266} > \frac{202}{234} > \frac{103}{135}$
	0.968 0.929 0.863 0.763

2)	$\frac{261}{296} > \frac{150}{189} > \frac{170}{242} > \frac{70}{113}$
	0.882 0.794 0.702 0.619

3)	$\frac{172}{193} > \frac{241}{309} > \frac{184}{264} > \frac{194}{313}$
	0.891 0.780 0.697 0.620

4)	$\frac{365}{490} > \frac{604}{879} > \frac{488}{803} > \frac{370}{648}$
	0.745 0.687 0.608 0.571

5)	$\frac{577}{432} > \frac{560}{437} > \frac{669}{579} > \frac{537}{485}$
	1.336 1.281 1.155 1.107

6)	$\frac{315}{266} < \frac{233}{218}$
	1.184 22.02%
7)	$\frac{30}{29} > \frac{310}{305}$
	1.034 951.72%
8)	$\frac{142}{116} > \frac{281}{199}$
	1.224 71.55%
9)	$\frac{65}{224} < \frac{73}{224}$
	0.290 0.00%
10)	$\frac{143}{84} > \frac{126}{83}$
	1.702 1.20%
11)	$\frac{226}{108} > \frac{71}{34}$
	2.093 217.65%
12)	$\frac{275}{262} < \frac{118}{111}$
	1.050 136.04%
13)	$\frac{304}{92} < \frac{216}{57}$
	3.304 61.40%
14)	$\frac{63}{143} > \frac{164}{325}$
	0.441 127.27%
15)	$\frac{173}{205} > \frac{214}{221}$
	0.844 7.80%

1)

63	251	161	144
41	170	94	88
<hr/>			
_____ > _____ > _____ > _____			

6)

95	_____	83
288	_____	254
<hr/>		

2)

56	110	246	84
48	117	226	93
<hr/>			
_____ > _____ > _____ > _____			

8)

130	_____	273
163	_____	332
<hr/>		

3)

187	153	256	298
185	169	236	254
<hr/>			
_____ > _____ > _____ > _____			

9)

279	_____	103
300	_____	112
<hr/>		

4)

420	293	581	719
481	315	705	944
<hr/>			
_____ > _____ > _____ > _____			

10)

303	_____	149
285	_____	138
<hr/>		

5)

148	927	368	953
124	719	326	971
<hr/>			
_____ > _____ > _____ > _____			

11)

142	_____	182
91	_____	107
<hr/>		

12)

71	_____	111
168	_____	254
<hr/>		

13)

75	_____	288
90	_____	306
<hr/>		

14)

117	_____	57
316	_____	159
<hr/>		

15)

195	_____	310
184	_____	329
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{161}{94} > \frac{144}{88} > \frac{63}{41} > \frac{251}{170}$	1.713	1.636	1.537	1.476
----	---	-------	-------	-------	-------

2)	$\frac{56}{48} > \frac{246}{226} > \frac{110}{117} > \frac{84}{93}$	1.167	1.088	0.940	0.903
----	---	-------	-------	-------	-------

3)	$\frac{298}{254} > \frac{256}{236} > \frac{187}{185} > \frac{153}{169}$	1.173	1.085	1.011	0.905
----	---	-------	-------	-------	-------

4)	$\frac{293}{315} > \frac{420}{481} > \frac{581}{705} > \frac{719}{944}$	0.930	0.873	0.824	0.762
----	---	-------	-------	-------	-------

5)	$\frac{927}{719} > \frac{148}{124} > \frac{368}{326} > \frac{953}{971}$	1.289	1.194	1.129	0.981
----	---	-------	-------	-------	-------

6)	$\frac{95}{288} < \frac{0.330}{0.327}$	14.46%	<-	83
7)	$\frac{146}{268} < \frac{0.545}{0.627}$	13.39%	<-	254
8)	$\frac{130}{163} > \frac{0.798}{0.822}$	84.81%	<-	79
9)	$\frac{279}{300} < \frac{0.930}{0.920}$	112.70%	>-	126
10)	$\frac{303}{285} > \frac{1.063}{1.080}$	110.00%	>-	273
11)	$\frac{142}{91} > \frac{1.560}{1.701}$	103.68%	<-	103
12)	$\frac{71}{168} > \frac{0.423}{0.437}$	170.87%	<-	112
13)	$\frac{75}{90} > \frac{0.833}{0.941}$	103.36%	>-	149
14)	$\frac{117}{316} < \frac{0.370}{0.358}$	28.17%	>-	182
15)	$\frac{195}{184} > \frac{1.060}{0.942}$	56.34%	>-	107
		284.00%	>-	111
		240.00%	>-	254
		105.26%	<-	288
		98.74%	<-	306
		58.97%	>-	0.941
		58.97%	>-	57
		284.00%	>-	159
		240.00%	>-	310
		105.26%	<-	329
		98.74%	<-	0.942

1)

92	215	30	261
109	240	40	323
<hr/>			

_____ > _____ > _____ > _____

2)

267	273	238	258
281	339	229	306
<hr/>			

_____ > _____ > _____ > _____

3)

174	245	268	110
175	294	291	140
<hr/>			

_____ > _____ > _____ > _____

4)

256	503	852	492
240	491	708	547
<hr/>			

_____ > _____ > _____ > _____

5)

592	324	111	611
920	387	150	897
<hr/>			

_____ > _____ > _____ > _____

6)

119	_____	138
223	_____	223
<hr/>		

7)

300	_____	313
157	_____	180
<hr/>		

8)

234	_____	265
70	_____	86
<hr/>		

9)

312	_____	244
207	_____	144
<hr/>		

10)

306	_____	181
198	_____	101
<hr/>		

11)

84	_____	194
113	_____	286
<hr/>		

12)

203	_____	223
221	_____	226
<hr/>		

13)

173	_____	287
62	_____	112
<hr/>		

14)

270	_____	67
188	_____	45
<hr/>		

15)

248	_____	167
246	_____	173
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)			
$\frac{215}{240} > \frac{92}{109} > \frac{261}{323} > \frac{30}{40}$			
0.896	0.844	0.808	0.750

2)			
$\frac{238}{229} > \frac{267}{281} > \frac{258}{306} > \frac{273}{339}$			
1.039	0.950	0.843	0.805

3)			
$\frac{174}{175} > \frac{268}{291} > \frac{245}{294} > \frac{110}{140}$			
0.994	0.921	0.833	0.786

4)			
$\frac{852}{708} > \frac{256}{240} > \frac{503}{491} > \frac{492}{547}$			
1.203	1.067	1.024	0.899

5)			
$\frac{324}{387} > \frac{111}{150} > \frac{611}{897} > \frac{592}{920}$			
0.837	0.740	0.681	0.643

6)	$\frac{119}{223}$	15.97%	138
	0.534	->	223
		0.00%	0.619
7)	$\frac{300}{157}$	4.33%	313
	1.911	->	180
		14.65%	1.739
8)	$\frac{234}{70}$	13.25%	265
	3.343	->	86
		22.86%	3.081
9)	$\frac{312}{207}$	27.87%	244
	1.507	<-	144
		43.75%	1.694
10)	$\frac{306}{198}$	69.06%	181
	1.545	<-	101
		96.04%	1.792
11)	$\frac{84}{113}$	130.95%	194
	0.743	->	286
		153.10%	0.678
12)	$\frac{203}{221}$	9.85%	223
	0.919	->	226
		2.26%	0.987
13)	$\frac{173}{62}$	65.90%	287
	2.790	->	112
		80.65%	2.563
14)	$\frac{270}{188}$	302.99%	67
	1.436	<-	45
		317.78%	1.489
15)	$\frac{248}{246}$	48.50%	167
	1.008	<-	173
		42.20%	0.965

1)

172	245	91	256
275	309	131	293
<hr/>			

_____ > _____ > _____ > _____

6)

296		202
321		207
<hr/>		

2)

231	116	292	303
180	108	238	211
<hr/>			

_____ > _____ > _____ > _____

8)

303		259
329		291
<hr/>		

3)

304	197	55	283
287	199	49	241
<hr/>			

_____ > _____ > _____ > _____

9)

309		226
311		229
<hr/>		

4)

440	389	204	512
704	832	418	933
<hr/>			

_____ > _____ > _____ > _____

10)

266		261
328		284
<hr/>		

5)

633	956	719	478
650	885	807	609
<hr/>			

_____ > _____ > _____ > _____

11)

208		241
127		135
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)						
256	>	245	>	91	>	172
293		309		131		275
0.874		0.793		0.695		0.625

2)						
303	>	231	>	292	>	116
211		180		238		108
1.436		1.283		1.227		1.074

3)						
283	>	55	>	304	>	197
241		49		287		199
1.174		1.122		1.059		0.990

4)						
440	>	512	>	204	>	389
704		933		418		832
0.625		0.549		0.488		0.468

5)						
956	>	633	>	719	>	478
885		650		807		609
1.080		0.974		0.891		0.785

6)	296	46.53%	202
	321	<-	207
	0.922	55.07%	0.976
7)	302	34.82%	224
	294	<-	231
	1.027	27.27%	0.970
8)	303	16.99%	259
	329	<-	291
	0.921	13.06%	0.890
9)	309	36.73%	226
	311	<-	229
	0.994	35.81%	0.987
10)	266	1.92%	261
	328	<-	284
	0.811	15.49%	0.919
11)	208	15.87%	241
	127	->	135
	1.638	6.30%	1.785
12)	305	156.30%	119
	294	<-	115
	1.037	155.65%	1.035
13)	18	433.33%	337
	62	<-	96
	0.290	443.55%	0.285
14)	289	93.96%	149
	201	<-	98
	1.438	105.10%	1.520
15)	56	12.00%	50
	193	<-	189
	0.290	2.12%	0.265

1)

214	269	274	75
201	291	324	96
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

125	_____	24
212	_____	44
<hr/>		

7)

165	_____	334
101	_____	191
<hr/>		

2)

341	305	293	163
226	178	225	131
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

166	_____	138
299	_____	250
<hr/>		

9)

269	_____	324
196	_____	218
<hr/>		

3)

319	229	34	304
272	224	35	326
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

323	_____	263
250	_____	188
<hr/>		

11)

290	_____	146
250	_____	142
<hr/>		

4)

986	830	567	994
925	893	413	806
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

12)

114	_____	298
100	_____	239
<hr/>		

5)

497	774	571	674
514	977	625	815
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{214}{201} > \frac{269}{291} > \frac{274}{324} > \frac{75}{96}$
	1.065 0.924 0.846 0.781

2)	$\frac{305}{178} > \frac{341}{226} > \frac{293}{225} > \frac{163}{131}$
	1.713 1.509 1.302 1.244

3)	$\frac{319}{272} > \frac{229}{224} > \frac{34}{35} > \frac{304}{326}$
	1.173 1.022 0.971 0.933

4)	$\frac{567}{413} > \frac{994}{806} > \frac{986}{925} > \frac{830}{893}$
	1.373 1.233 1.066 0.929

5)	$\frac{497}{514} > \frac{571}{625} > \frac{674}{815} > \frac{774}{977}$
	0.967 0.914 0.827 0.792

6)	$\frac{125}{212} < \frac{24}{44}$
	0.590 0.545
7)	$\frac{165}{101} > \frac{334}{191}$
	1.634 1.749
8)	$\frac{166}{299} < \frac{138}{250}$
	0.555 0.552
9)	$\frac{269}{196} > \frac{324}{218}$
	1.372 1.486
10)	$\frac{323}{250} < \frac{263}{188}$
	1.292 1.399
11)	$\frac{290}{250} < \frac{146}{142}$
	1.160 1.028
12)	$\frac{114}{100} > \frac{298}{239}$
	1.140 1.247
13)	$\frac{281}{286} < \frac{172}{159}$
	0.983 1.082
14)	$\frac{229}{218} > \frac{299}{262}$
	1.050 1.141
15)	$\frac{76}{126} > \frac{147}{250}$
	0.603 0.588

1)

148	191	247	249
147	246	224	283
<hr/>			
_____ > _____ > _____ > _____			

6)

154		303
108		230
<hr/>		

2)

191	125	204	149
287	213	278	236
<hr/>			
_____ > _____ > _____ > _____			

8)

163		162
257		228
<hr/>		

3)

299	218	104	182
331	258	144	240
<hr/>			
_____ > _____ > _____ > _____			

10)

158		229
142		193
<hr/>		

4)

621	833	482	254
565	656	581	268
<hr/>			
_____ > _____ > _____ > _____			

11)

191		158
340		253
<hr/>		

5)

358	583	403	301
505	714	526	487
<hr/>			
_____ > _____ > _____ > _____			

13)

148		256
84		138
<hr/>		

14)

44		181
72		280
<hr/>		

15)

246		164
299		178
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{247}{224} > \frac{148}{147} > \frac{249}{283} > \frac{191}{246}$			
1.103	1.007	0.880	0.776

2)			
$\frac{204}{278} > \frac{191}{287} > \frac{149}{236} > \frac{125}{213}$			
0.734	0.666	0.631	0.587

3)			
$\frac{299}{331} > \frac{218}{258} > \frac{182}{240} > \frac{104}{144}$			
0.903	0.845	0.758	0.722

4)			
$\frac{833}{656} > \frac{621}{565} > \frac{254}{268} > \frac{482}{581}$			
1.270	1.099	0.948	0.830

5)			
$\frac{583}{714} > \frac{403}{526} > \frac{358}{505} > \frac{301}{487}$			
0.817	0.766	0.709	0.618

6)	154	96.75%	303
	108	->	230
	1.426	112.96%	1.317
7)	273	22.42%	223
	179	<-	150
	1.525	19.33%	1.487
8)	163	0.62%	162
	257	<-	228
	0.634	12.72%	0.711
9)	231	99.14%	116
	51	<-	26
	4.529	96.15%	4.462
10)	158	44.94%	229
	142	->	193
	1.113	35.92%	1.187
11)	191	20.89%	158
	340	<-	253
	0.562	34.39%	0.625
12)	98	24.05%	79
	215	<-	191
	0.456	12.57%	0.414
13)	148	72.97%	256
	84	->	138
	1.762	64.29%	1.855
14)	44	311.36%	181
	72	->	280
	0.611	288.89%	0.646
15)	246	50.00%	164
	299	<-	178
	0.823	67.98%	0.921

1)

140	121	130	281
122	99	124	204
_____ > _____ > _____ > _____			

6)

219		322
243		314

2)

232	248	96	234
302	255	133	276
_____ > _____ > _____ > _____			

8)

16		40
54		124

3)

100	118	130	81
217	306	303	168
_____ > _____ > _____ > _____			

10)

82		51
314		219

4)

735	705	808	650
786	670	727	788
_____ > _____ > _____ > _____			

11)

261		191
21		15

5)

956	441	893	800
993	392	740	769
_____ > _____ > _____ > _____			

13)

82		116
275		340

14)

125		12
241		24

15)

49		39
156		126

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{281}{204} > \frac{121}{99} > \frac{140}{122} > \frac{130}{124}$			
1.377	1.222	1.148	1.048

2)			
$\frac{248}{255} > \frac{234}{276} > \frac{232}{302} > \frac{96}{133}$			
0.973	0.848	0.768	0.722

3)			
$\frac{81}{168} > \frac{100}{217} > \frac{130}{303} > \frac{118}{306}$			
0.482	0.461	0.429	0.386

4)			
$\frac{808}{727} > \frac{705}{670} > \frac{735}{786} > \frac{650}{788}$			
1.111	1.052	0.935	0.825

5)			
$\frac{893}{740} > \frac{441}{392} > \frac{800}{769} > \frac{956}{993}$			
1.207	1.125	1.040	0.963

6)	$\frac{219}{243}$	47.03%	322
	0.901	->	314
		29.22%	1.025
7)	$\frac{167}{264}$	1.21%	165
	0.633	<-	232
		13.79%	0.711
8)	$\frac{16}{54}$	150.00%	40
	0.296	->	124
		129.63%	0.323
9)	$\frac{85}{92}$	124.71%	191
	0.924	->	209
		127.17%	0.914
10)	$\frac{82}{314}$	60.78%	51
	0.261	<-	219
		43.38%	0.233
11)	$\frac{261}{21}$	36.65%	191
	12.429	<-	15
		40.00%	12.733
12)	$\frac{209}{160}$	16.75%	244
	1.306	->	191
		19.38%	1.277
13)	$\frac{82}{275}$	41.46%	116
	0.298	->	340
		23.64%	0.341
14)	$\frac{125}{241}$	941.67%	12
	0.519	<-	24
		904.17%	0.500
15)	$\frac{49}{156}$	25.64%	39
	0.314	<-	126
		23.81%	0.310

1)

19	312	168	307
14	216	139	202
<hr/>			

_____ > _____ > _____ > _____

6)

252		280
215		229
<hr/>		

2)

258	312	187	340
267	268	215	323
<hr/>			

_____ > _____ > _____ > _____

8)

310		78
328		94
<hr/>		

3)

286	249	239	250
214	168	188	150
<hr/>			

_____ > _____ > _____ > _____

10)

235		147
290		189
<hr/>		

4)

461	877	826	429
405	966	799	358
<hr/>			

_____ > _____ > _____ > _____

12)

295		185
111		74
<hr/>		

5)

308	503	586	668
368	577	789	990
<hr/>			

_____ > _____ > _____ > _____

13)

187		166
137		118
<hr/>		

14)

94		320
42		131
<hr/>		

15)

320		254
340		268
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{307}{202} > \frac{312}{216} > \frac{19}{14} > \frac{168}{139}$
1.520	1.444
1.357	1.209

2)	$\frac{312}{268} > \frac{340}{323} > \frac{258}{267} > \frac{187}{215}$
1.164	1.053
0.966	0.870

3)	$\frac{250}{150} > \frac{249}{168} > \frac{286}{214} > \frac{239}{188}$
1.667	1.482
1.336	1.271

4)	$\frac{429}{358} > \frac{461}{405} > \frac{826}{799} > \frac{877}{966}$
1.198	1.138
1.034	0.908

5)	$\frac{503}{577} > \frac{308}{368} > \frac{586}{789} > \frac{668}{990}$
0.872	0.837
0.743	0.675

6)	$\frac{252}{215} > \frac{1.172}{1.172}$	11.11%	280
		->	229
		6.51%	1.223
7)	$\frac{49}{44} > \frac{1.114}{1.114}$	10.20%	54
		->	48
		9.09%	1.125
8)	$\frac{310}{328} > \frac{0.945}{0.945}$	297.44%	78
		-<	94
		248.94%	0.830
9)	$\frac{307}{318} > \frac{0.965}{0.965}$	283.75%	80
		-<	89
		257.30%	0.899
10)	$\frac{235}{290} > \frac{0.810}{0.810}$	59.86%	147
		-<	189
		53.44%	0.778
11)	$\frac{22}{285} > \frac{0.077}{0.077}$	22.22%	18
		-<	260
		9.62%	0.069
12)	$\frac{295}{111} > \frac{2.658}{2.658}$	59.46%	185
		-<	74
		50.00%	2.500
13)	$\frac{187}{137} > \frac{1.365}{1.365}$	12.65%	166
		-<	118
		16.10%	1.407
14)	$\frac{94}{42} > \frac{2.238}{2.238}$	240.43%	320
		->	131
		211.90%	2.443
15)	$\frac{320}{340} > \frac{0.941}{0.941}$	25.98%	254
		-<	268
		26.87%	0.948

1)

154	34	62	149
323	61	123	257
_____ > _____ > _____ > _____			

6)

54		44
30		23

2)

292	270	94	282
270	286	81	335
_____ > _____ > _____ > _____			

8)

153		54
282		107

3)

199	195	310	195
145	194	270	153
_____ > _____ > _____ > _____			

10)

110		322
40		103

4)

315	584	503	460
467	922	907	934
_____ > _____ > _____ > _____			

12)

178		223
231		305

5)

308	945	597	641
252	695	406	396
_____ > _____ > _____ > _____			

14)

48		220
66		313

15)

162		212
202		301

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{149}{257} > \frac{34}{61} > \frac{62}{123} > \frac{154}{323}$			
0.580	0.557	0.504	0.477

2)			
$\frac{94}{81} > \frac{292}{270} > \frac{270}{286} > \frac{282}{335}$			
1.160	1.081	0.944	0.842

3)			
$\frac{199}{145} > \frac{195}{153} > \frac{310}{270} > \frac{195}{194}$			
1.372	1.275	1.148	1.005

4)			
$\frac{315}{467} > \frac{584}{922} > \frac{503}{907} > \frac{460}{934}$			
0.675	0.633	0.555	0.493

5)			
$\frac{641}{396} > \frac{597}{406} > \frac{945}{695} > \frac{308}{252}$			
1.619	1.470	1.360	1.222

6)	$\frac{54}{30}$	22.73% <- 44 23 1.913
	1.800	30.43%
7)	$\frac{258}{273}$	57.32% <- 164 196 0.837
	0.945	39.29%
8)	$\frac{153}{282}$	183.33% <- 54 107 0.505
	0.543	163.55%
9)	$\frac{290}{231}$	3.45% -> 300 256 1.172
	1.255	10.82%
10)	$\frac{110}{40}$	192.73% -> 322 103 3.126
	2.750	157.50%
11)	$\frac{52}{194}$	53.85% -> 80 332 0.241
	0.268	71.13%
12)	$\frac{178}{231}$	25.28% -> 223 305 0.731
	0.771	32.03%
13)	$\frac{79}{45}$	298.73% -> 315 180 1.750
	1.756	300.00%
14)	$\frac{48}{66}$	358.33% -> 220 313 0.703
	0.727	374.24%
15)	$\frac{162}{202}$	30.86% -> 212 301 0.704
	0.802	49.01%

1)

293	284	168	253
205	244	134	156
<hr/>			
_____ > _____ > _____ > _____			

6)

206		280
221		302
<hr/>		

2)

47	162	192	309
39	147	199	230
<hr/>			
_____ > _____ > _____ > _____			

8)

292		178
165		87
<hr/>		

3)

168	277	329	239
137	194	249	160
<hr/>			
_____ > _____ > _____ > _____			

10)

259		147
303		195
<hr/>		

4)

688	681	673	674
757	956	823	648
<hr/>			
_____ > _____ > _____ > _____			

12)

260		220
192		173
<hr/>		

5)

253	292	281	316
320	283	315	443
<hr/>			
_____ > _____ > _____ > _____			

13)

290		183
236		168
<hr/>		

14)

160		177
182		186
<hr/>		

15)

157		266
131		201
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{253}{156} > \frac{293}{205} > \frac{168}{134} > \frac{284}{244}$
	1.622 1.429 1.254 1.164

2)	$\frac{309}{230} > \frac{47}{39} > \frac{162}{147} > \frac{192}{199}$
	1.343 1.205 1.102 0.965

3)	$\frac{239}{160} > \frac{277}{194} > \frac{329}{249} > \frac{168}{137}$
	1.494 1.428 1.321 1.226

4)	$\frac{674}{648} > \frac{688}{757} > \frac{673}{823} > \frac{681}{956}$
	1.040 0.909 0.818 0.712

5)	$\frac{292}{283} > \frac{281}{315} > \frac{253}{320} > \frac{316}{443}$
	1.032 0.892 0.791 0.713

6)	$\frac{206}{221} > \frac{280}{302}$
	0.932 0.927
7)	$\frac{307}{228} < \frac{164}{105}$
	1.346 1.562
8)	$\frac{292}{165} < \frac{178}{87}$
	1.770 2.046
9)	$\frac{310}{236} > \frac{334}{261}$
	1.314 1.280
10)	$\frac{259}{303} < \frac{147}{195}$
	0.855 0.754
11)	$\frac{256}{309} < \frac{140}{183}$
	0.828 0.765
12)	$\frac{260}{192} < \frac{220}{173}$
	1.354 1.272
13)	$\frac{290}{236} < \frac{183}{168}$
	1.229 1.089
14)	$\frac{160}{182} > \frac{177}{186}$
	0.879 0.952
15)	$\frac{157}{131} > \frac{266}{201}$
	1.198 1.323

1)

161	142	142	200
337	206	257	320
_____ > _____ > _____ > _____			

6)

287		264
282		266

2)

73	69	258	171
119	101	338	265
_____ > _____ > _____ > _____			

8)

278		166
326		206

3)

85	66	47	110
206	134	104	202
_____ > _____ > _____ > _____			

9)

225		295
94		110

4)

479	589	628	821
570	584	845	930
_____ > _____ > _____ > _____			

10)

295		153
303		158

5)

289	789	849	538
245	826	807	490
_____ > _____ > _____ > _____			

11)

175		298
57		88

12)

264		200
328		237

13)

327		333
280		283

14)

144		114
147		127

15)

146		241
207		328

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{142}{206} > \frac{200}{320} > \frac{142}{257} > \frac{161}{337}$			
0.689	0.625	0.553	0.478

2)			
$\frac{258}{338} > \frac{69}{101} > \frac{171}{265} > \frac{73}{119}$			
0.763	0.683	0.645	0.613

3)			
$\frac{110}{202} > \frac{66}{134} > \frac{47}{104} > \frac{85}{206}$			
0.545	0.493	0.452	0.413

4)			
$\frac{589}{584} > \frac{821}{930} > \frac{479}{570} > \frac{628}{845}$			
1.009	0.883	0.840	0.743

5)			
$\frac{289}{245} > \frac{538}{490} > \frac{849}{807} > \frac{789}{826}$			
1.180	1.098	1.052	0.955

6)	287	8.71%	264
	282	<-	266
	1.018	6.02%	0.992
7)	243	81.34%	134
	287	<-	163
	0.847	76.07%	0.822
8)	278	67.47%	166
	326	<-	206
	0.853	58.25%	0.806
9)	225	31.11%	295
	94	->	110
	2.394	17.02%	2.682
10)	295	92.81%	153
	303	<-	158
	0.974	91.77%	0.968
11)	175	70.29%	298
	57	->	88
	3.070	54.39%	3.386
12)	264	32.00%	200
	328	<-	237
	0.805	38.40%	0.844
13)	327	1.83%	333
	280	->	283
	1.168	1.07%	1.177
14)	144	26.32%	114
	147	<-	127
	0.980	15.75%	0.898
15)	146	65.07%	241
	207	->	328
	0.705	58.45%	0.735

1)

126	106	168	90
236	207	299	145
<hr/>			
_____ > _____ > _____ > _____			

6)

97	_____	251
50	_____	142
<hr/>		

2)

308	252	155	120
333	329	154	149
<hr/>			
_____ > _____ > _____ > _____			

8)

127	_____	112
153	_____	138
<hr/>		

3)

220	141	128	201
241	203	160	313
<hr/>			
_____ > _____ > _____ > _____			

9)

22	_____	42
141	_____	240
<hr/>		

4)

384	853	210	661
380	960	220	832
<hr/>			
_____ > _____ > _____ > _____			

10)

94	_____	168
138	_____	267
<hr/>		

5)

719	544	240	464
920	923	372	646
<hr/>			
_____ > _____ > _____ > _____			

11)

267	_____	231
325	_____	287
<hr/>		

12)

192	_____	128
302	_____	192
<hr/>		

13)

53	_____	56
300	_____	307
<hr/>		

14)

107	_____	221
40	_____	84
<hr/>		

15)

142	_____	116
102	_____	74
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)
$\frac{90}{145} > \frac{168}{299} > \frac{126}{236} > \frac{106}{207}$
0.621
0.562
0.534
0.512

6)	97	158.76%	251
	50	->	142
	1.940	184.00%	1.768

2)
$\frac{155}{154} > \frac{308}{333} > \frac{120}{149} > \frac{252}{329}$
1.006
0.925
0.805
0.766

7)	6	866.67%	58
	38	->	328
	0.158	763.16%	0.177

3)
$\frac{220}{241} > \frac{128}{160} > \frac{141}{203} > \frac{201}{313}$
0.913
0.800
0.695
0.642

8)	127	13.39%	112
	153	<-	138
	0.830	10.87%	0.812

4)
$\frac{384}{380} > \frac{210}{220} > \frac{853}{960} > \frac{661}{832}$
1.011
0.955
0.889
0.794

10)	94	78.72%	168
	138	->	267
	0.681	93.48%	0.629

5)
$\frac{719}{920} > \frac{464}{646} > \frac{240}{372} > \frac{544}{923}$
0.782
0.718
0.645
0.589

11)	267	15.58%	231
	325	<-	287
	0.822	13.24%	0.805

12)	192	50.00%	128
	302	<-	192
	0.636	57.29%	0.667

13)	53	5.66%	56
	300	->	307
	0.177	2.33%	0.182

14)	107	106.54%	221
	40	->	84
	2.675	110.00%	2.631

15)	142	22.41%	116
	102	<-	74
	1.392	37.84%	1.568

1)

237	264	309	132
264	335	304	186
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

175	_____	202
135	_____	174
<hr/>		

7)

47	_____	109
107	_____	233
<hr/>		

2)

181	138	274	56
148	141	257	60
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

44	_____	49
273	_____	342
<hr/>		

9)

148	_____	172
195	_____	229
<hr/>		

3)

141	177	195	70
256	261	319	90
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

251	_____	131
268	_____	144
<hr/>		

11)

121	_____	215
76	_____	129
<hr/>		

4)

752	587	275	583
698	687	300	584
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

12)

206	_____	306
224	_____	325
<hr/>		

5)

718	781	606	721
882	836	935	963
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{309}{304} > \frac{237}{264} > \frac{264}{335} > \frac{132}{186}$	1.016	0.898	0.788	0.710
----	---	-------	-------	-------	-------

2)	$\frac{181}{148} > \frac{274}{257} > \frac{138}{141} > \frac{56}{60}$	1.223	1.066	0.979	0.933
----	---	-------	-------	-------	-------

3)	$\frac{70}{90} > \frac{177}{261} > \frac{195}{319} > \frac{141}{256}$	0.778	0.678	0.611	0.551
----	---	-------	-------	-------	-------

4)	$\frac{752}{698} > \frac{583}{584} > \frac{275}{300} > \frac{587}{687}$	1.077	0.998	0.917	0.854
----	---	-------	-------	-------	-------

5)	$\frac{781}{836} > \frac{718}{882} > \frac{721}{963} > \frac{606}{935}$	0.934	0.814	0.749	0.648
----	---	-------	-------	-------	-------

6)	$\frac{175}{135} > \frac{135}{1.296}$	15.43%	->	$\frac{202}{174}$
		28.89%	->	$\frac{1.161}{1.161}$
7)	$\frac{47}{107} > \frac{107}{0.439}$	131.91%	->	$\frac{109}{233}$
		117.76%	->	$\frac{0.468}{0.468}$
8)	$\frac{44}{273} > \frac{273}{0.161}$	11.36%	->	$\frac{49}{342}$
		25.27%	->	$\frac{0.143}{0.143}$
9)	$\frac{148}{195} > \frac{195}{0.759}$	16.22%	->	$\frac{172}{229}$
		17.44%	->	$\frac{0.751}{0.751}$
10)	$\frac{251}{268} > \frac{268}{0.937}$	91.60%	<-	$\frac{131}{144}$
		86.11%	<-	$\frac{0.910}{0.910}$
11)	$\frac{121}{76} > \frac{76}{1.592}$	77.69%	->	$\frac{215}{129}$
		69.74%	->	$\frac{1.667}{1.667}$
12)	$\frac{206}{224} > \frac{224}{0.920}$	48.54%	->	$\frac{306}{325}$
		45.09%	->	$\frac{0.942}{0.942}$
13)	$\frac{52}{134} > \frac{134}{0.388}$	186.54%	->	$\frac{149}{332}$
		147.76%	->	$\frac{0.449}{0.449}$
14)	$\frac{80}{332} > \frac{332}{0.241}$	90.48%	<-	$\frac{42}{189}$
		75.66%	<-	$\frac{0.222}{0.222}$
15)	$\frac{257}{183} > \frac{183}{1.404}$	0.78%	<-	$\frac{255}{173}$
		5.78%	<-	$\frac{1.474}{1.474}$

1)

$$\begin{array}{r} 17 \\ \times 15 \\ \hline 15 & 75 \\ & 48 \\ \hline & 50 \\ & 237 \\ \hline & 175 \end{array}$$

_____ > _____ > _____ > _____

6)

$$\begin{array}{r} 121 \\ \times 119 \\ \hline & 119 \\ & 121 \\ \hline & 289 \\ & 296 \end{array}$$

2)

$$\begin{array}{r} 99 \\ \times 133 \\ \hline 296 \\ 323 \\ \hline 97 \\ 71 \\ \hline 72 \end{array}$$

_____ > _____ > _____ > _____

8)

$$\begin{array}{r} 54 \\ \times 155 \\ \hline & 155 \\ & 54 \\ \hline & 86 \\ & 273 \end{array}$$

3)

$$\begin{array}{r} 288 \\ \times 243 \\ \hline 261 \\ 208 \\ \hline 94 \\ 65 \\ \hline 165 \\ 145 \end{array}$$

_____ > _____ > _____ > _____

9)

$$\begin{array}{r} 135 \\ \times 120 \\ \hline & 120 \\ & 135 \\ \hline & 323 \\ & 249 \end{array}$$

4)

$$\begin{array}{r} 616 \\ \times 692 \\ \hline 483 \\ 499 \\ \hline 982 \\ 847 \\ \hline 468 \\ 430 \end{array}$$

_____ > _____ > _____ > _____

10)

$$\begin{array}{r} 161 \\ \times 298 \\ \hline & 298 \\ & 161 \\ \hline & 186 \\ & 301 \end{array}$$

5)

$$\begin{array}{r} 652 \\ \times 623 \\ \hline 572 \\ 580 \\ \hline 686 \\ 907 \\ \hline 791 \\ 922 \end{array}$$

_____ > _____ > _____ > _____

11)

$$\begin{array}{r} 159 \\ \times 71 \\ \hline & 71 \\ & 159 \\ \hline & 228 \\ & 88 \end{array}$$

12)

$$\begin{array}{r} 39 \\ \times 214 \\ \hline & 214 \\ & 39 \\ \hline & 37 \\ & 203 \end{array}$$

13)

$$\begin{array}{r} 244 \\ \times 221 \\ \hline & 221 \\ & 244 \\ \hline & 311 \\ & 321 \end{array}$$

14)

$$\begin{array}{r} 143 \\ \times 125 \\ \hline & 125 \\ & 143 \\ \hline & 215 \\ & 182 \end{array}$$

15)

$$\begin{array}{r} 219 \\ \times 321 \\ \hline & 321 \\ & 219 \\ \hline & 106 \\ & 152 \end{array}$$

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{75}{48} > \frac{237}{175} > \frac{59}{50} > \frac{17}{15}$		
1.563	1.354	1.180	1.133

2)	$\frac{72}{71} > \frac{296}{323} > \frac{83}{97} > \frac{99}{133}$		
1.014	0.916	0.856	0.744

3)	$\frac{94}{65} > \frac{261}{208} > \frac{288}{243} > \frac{165}{145}$		
1.446	1.255	1.185	1.138

4)	$\frac{982}{847} > \frac{468}{430} > \frac{483}{499} > \frac{616}{692}$		
1.159	1.088	0.968	0.890

5)	$\frac{652}{623} > \frac{572}{580} > \frac{791}{922} > \frac{686}{907}$		
1.047	0.986	0.858	0.756

6)	121	138.84%	289
	119	->	296
	1.017	->	0.976
		148.74%	
7)	71	51.06%	47
	205	<-	134
	0.346	<-	0.351
		52.99%	
8)	54	59.26%	86
	155	->	273
	0.348	->	0.315
		76.13%	
9)	135	139.26%	323
	120	->	249
	1.125	->	1.297
		107.50%	
10)	161	15.53%	186
	298	->	301
	0.540	->	0.618
		1.01%	
11)	159	43.40%	228
	71	->	88
	2.239	->	2.591
		23.94%	
12)	39	5.41%	37
	214	<-	203
	0.182	<-	0.182
		5.42%	
13)	244	27.46%	311
	221	->	321
	1.104	->	0.969
		45.25%	
14)	143	50.35%	215
	125	->	182
	1.144	->	1.181
		45.60%	
15)	219	106.60%	106
	321	<-	152
	0.682	<-	0.697
		111.18%	

1)

314	102	321	277
141	41	171	136
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

172	_____	116
313	_____	211
<hr/>		

7)

50	_____	230
62	_____	288
<hr/>		

2)

30	176	35	186
70	325	73	313
<hr/>			
_____	_____	_____	_____

8)

72	_____	257
79	_____	306
<hr/>		

3)

159	261	82	93
222	273	102	111
<hr/>			
_____	_____	_____	_____

10)

323	_____	296
334	_____	276
<hr/>		

4)

983	262	940	755
921	260	780	794
<hr/>			
_____	_____	_____	_____

12)

164	_____	97
329	_____	177
<hr/>		

5)

59	282	922	846
76	316	874	889
<hr/>			
_____	_____	_____	_____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)
$\frac{102}{41} > \frac{314}{141} > \frac{277}{136} > \frac{321}{171}$
2.488
2.227
2.037
1.877

2)
$\frac{186}{313} > \frac{176}{325} > \frac{35}{73} > \frac{30}{70}$
0.594
0.542
0.479
0.429

3)
$\frac{261}{273} > \frac{93}{111} > \frac{82}{102} > \frac{159}{222}$
0.956
0.838
0.804
0.716

4)
$\frac{940}{780} > \frac{983}{921} > \frac{262}{260} > \frac{755}{794}$
1.205
1.067
1.008
0.951

5)
$\frac{922}{874} > \frac{846}{889} > \frac{282}{316} > \frac{59}{76}$
1.055
0.952
0.892
0.776

6)	$\frac{172}{313}$	48.28%	116
	0.550	<-	211
	0.550	48.34%	
		360.00%	
7)	$\frac{50}{62}$	->	230
	0.806	->	288
	0.799	364.52%	
		256.94%	
8)	$\frac{72}{79}$	->	257
	0.911	->	306
	0.840	287.34%	
		56.97%	
9)	$\frac{259}{285}$	<-	165
	0.909	<-	164
	1.006	73.78%	
		9.12%	
10)	$\frac{323}{334}$	<-	296
	0.967	<-	276
	1.072	21.01%	
		104.35%	
11)	$\frac{23}{91}$	->	47
	0.253	->	208
	0.226	128.57%	
		69.07%	
12)	$\frac{164}{329}$	<-	97
	0.498	<-	177
	0.548	85.88%	
		30.12%	
13)	$\frac{249}{191}$	->	324
	1.304	->	224
	1.446	17.28%	
		71.70%	
14)	$\frac{159}{126}$	->	273
	1.262	->	196
	1.393	55.56%	
		0.00%	
15)	$\frac{191}{314}$	->	191
	0.608	->	336
	0.568	7.01%	

1)

60	322	235	233
42	280	196	175
<hr/>			
_____ > _____ > _____ > _____			

6)

89		182
80		157
<hr/>		

2)

186	262	254	88
195	256	304	79
<hr/>			
_____ > _____ > _____ > _____			

8)

330		231
266		197
<hr/>		

3)

336	307	242	276
324	330	206	321
<hr/>			
_____ > _____ > _____ > _____			

10)

151		298
78		151
<hr/>		

4)

740	490	950	334
463	288	711	235
<hr/>			
_____ > _____ > _____ > _____			

12)

146		225
237		322
<hr/>		

5)

638	428	237	406
298	169	119	180
<hr/>			
_____ > _____ > _____ > _____			

13)

122		87
310		242
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{60}{42} > \frac{233}{175} > \frac{235}{196} > \frac{322}{280}$
1.429	1.331
1.199	1.150

2)	$\frac{88}{79} > \frac{262}{256} > \frac{186}{195} > \frac{254}{304}$
1.114	1.023
0.954	0.836

3)	$\frac{242}{206} > \frac{336}{324} > \frac{307}{330} > \frac{276}{321}$
1.175	1.037
0.930	0.860

4)	$\frac{490}{288} > \frac{740}{463} > \frac{334}{235} > \frac{950}{711}$
1.701	1.598
1.421	1.336

5)	$\frac{428}{169} > \frac{406}{180} > \frac{638}{298} > \frac{237}{119}$
2.533	2.256
2.141	1.992

6)	$\frac{89}{80}$	104.49% > ->	182 157 1.159
	1.113	96.25%	
7)	$\frac{254}{244}$	104.84% <- <-	124 116 1.069
	1.041	110.34%	
8)	$\frac{330}{266}$	42.86% <- <-	231 197 1.173
	1.241	35.03%	
9)	$\frac{291}{286}$	38.57% <- <-	210 221 0.950
	1.017	29.41%	
10)	$\frac{151}{78}$	97.35% > >	298 151 1.974
	1.936	93.59%	
11)	$\frac{166}{201}$	4.82% > >	174 202 0.861
	0.826	0.50%	
12)	$\frac{146}{237}$	54.11% > >	225 322 0.699
	0.616	35.86%	
13)	$\frac{122}{310}$	40.23% <- <-	87 242 0.360
	0.394	28.10%	
14)	$\frac{143}{97}$	84.62% > >	264 183 1.443
	1.474	88.66%	
15)	$\frac{202}{86}$	49.63% <- <-	135 64 2.109
	2.349	34.38%	

1)

169	160	130	179
224	195	183	205
<hr/>			
_____ > _____ > _____ > _____			

6)

221		326
191		299
<hr/>		

2)

127	119	142	14
266	226	331	25
<hr/>			
_____ > _____ > _____ > _____			

8)

217		295
146		218
<hr/>		

3)

193	155	73	221
272	295	122	332
<hr/>			
_____ > _____ > _____ > _____			

10)

299		191
250		166
<hr/>		

4)

901	247	908	892
572	143	660	679
<hr/>			
_____ > _____ > _____ > _____			

12)

231		173
188		159
<hr/>		

5)

433	750	353	702
696	967	535	967
<hr/>			
_____ > _____ > _____ > _____			

13)

263		233
268		239
<hr/>		

14)

195		285
113		168
<hr/>		

15)

289		126
330		163
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
179	>	160	>	169	>	130
205		195		224		183
0.873		0.821		0.754		0.710

2)						
14	>	119	>	127	>	142
25		226		266		331
0.560		0.527		0.477		0.429

3)						
193	>	221	>	73	>	155
272		332		122		295
0.710		0.666		0.598		0.525

4)						
247	>	901	>	908	>	892
143		572		660		679
1.727		1.575		1.376		1.314

5)						
750	>	702	>	353	>	433
967		967		535		696
0.776		0.726		0.660		0.622

6)	221	47.51%	326
	191	->	299
	1.157	56.54%	1.090
7)	322	22.90%	262
	202	<-	167
	1.594	20.96%	1.569
8)	217	35.94%	295
	146	->	218
	1.486	49.32%	1.353
9)	50	560.00%	330
	30	->	225
	1.667	650.00%	1.467
10)	299	56.54%	191
	250	<-	166
	1.196	50.60%	1.151
11)	267	181.05%	95
	230	<-	87
	1.161	164.37%	1.092
12)	231	33.53%	173
	188	<-	159
	1.229	18.24%	1.088
13)	263	12.88%	233
	268	<-	239
	0.981	12.13%	0.975
14)	195	46.15%	285
	113	->	168
	1.726	48.67%	1.696
15)	289	129.37%	126
	330	<-	163
	0.876	102.45%	0.773

1)

236	276	155	215
313	280	180	264
<hr/>			
_____ > _____ > _____ > _____			

6)

290		304
146		165
<hr/>		

2)

222	134	69	143
219	146	72	166
<hr/>			
_____ > _____ > _____ > _____			

8)

216		327
184		269
<hr/>		

3)

101	132	138	211
95	109	151	216
<hr/>			
_____ > _____ > _____ > _____			

10)

303		292
198		183
<hr/>		

4)

289	503	131	377
313	570	118	366
<hr/>			
_____ > _____ > _____ > _____			

12)

275		101
245		79
<hr/>		

5)

577	745	955	572
418	648	911	465
<hr/>			
_____ > _____ > _____ > _____			

13)

12		12
58		55
<hr/>		

14)

159		132
164		124
<hr/>		

15)

219		252
207		264
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{276}{280} > \frac{155}{180} > \frac{215}{264} > \frac{236}{313}$			
0.986	0.861	0.814	0.754

2)			
$\frac{222}{219} > \frac{69}{72} > \frac{134}{146} > \frac{143}{166}$			
1.014	0.958	0.918	0.861

3)			
$\frac{132}{109} > \frac{101}{95} > \frac{211}{216} > \frac{138}{151}$			
1.211	1.063	0.977	0.914

4)			
$\frac{131}{118} > \frac{377}{366} > \frac{289}{313} > \frac{503}{570}$			
1.110	1.030	0.923	0.882

5)			
$\frac{577}{418} > \frac{572}{465} > \frac{745}{648} > \frac{955}{911}$			
1.380	1.230	1.150	1.048

6)	290	4.83%	304
	146	->	165
	1.986	13.01%	1.842
7)	30	240.00%	102
	43	->	146
	0.698	239.53%	0.699
8)	216	51.39%	327
	184	->	269
	1.174	46.20%	1.216
9)	211	177.63%	76
	206	<-	79
	1.024	160.76%	0.962
10)	303	3.77%	292
	198	<-	183
	1.530	8.20%	1.596
11)	316	61.22%	196
	196	<-	120
	1.612	63.33%	1.633
12)	275	172.28%	101
	245	<-	79
	1.122	210.13%	1.278
13)	12	0.00%	12
	58	->	55
	0.207	5.45%	0.218
14)	159	20.45%	132
	164	<-	124
	0.970	32.26%	1.065
15)	219	15.07%	252
	207	->	264
	1.058	27.54%	0.955

1)

298	186	125	272
234	197	106	256
<hr/>			
_____ > _____ > _____ > _____			

6)

294		316
138		164
<hr/>		

2)

83	132	246	155
121	202	331	259
<hr/>			
_____ > _____ > _____ > _____			

8)

192		252
150		198
<hr/>		

3)

228	330	71	292
121	184	43	196
<hr/>			
_____ > _____ > _____ > _____			

9)

180		220
90		98
<hr/>		

4)

958	751	878	612
588	568	608	482
<hr/>			
_____ > _____ > _____ > _____			

10)

216		196
303		238
<hr/>		

5)

358	627	766	725
272	690	675	689
<hr/>			
_____ > _____ > _____ > _____			

11)

26		43
183		312
<hr/>		

12)

138		329
149		324
<hr/>		

13)

325		313
315		262
<hr/>		

14)

212		164
328		284
<hr/>		

15)

106		42
273		102
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
298	>	125	>	272	>	186
234		106		256		197
1.274		1.179		1.063		0.944

2)						
246	>	83	>	132	>	155
331		121		202		259
0.743		0.686		0.653		0.598

3)						
228	>	330	>	71	>	292
121		184		43		196
1.884		1.793		1.651		1.490

4)						
958	>	878	>	751	>	612
588		608		568		482
1.629		1.444		1.322		1.270

5)						
358	>	766	>	725	>	627
272		675		689		690
1.316		1.135		1.052		0.909

6)	294	7.48%	316
	138	->	164
	2.130	18.84%	1.927
7)	254	12.60%	286
	259	->	259
	0.981	0.00%	1.104
8)	192	31.25%	252
	150	->	198
	1.280	32.00%	1.273
9)	180	22.22%	220
	90	->	98
	2.000	8.89%	2.245
10)	216	10.20%	196
	303	<-	238
	0.713	27.31%	0.824
11)	26	65.38%	43
	183	->	312
	0.142	70.49%	0.138
12)	138	138.41%	329
	149	->	324
	0.926	117.45%	1.015
13)	325	3.83%	313
	315	<-	262
	1.032	20.23%	1.195
14)	212	29.27%	164
	328	<-	284
	0.646	15.49%	0.577
15)	106	152.38%	42
	273	<-	102
	0.388	167.65%	0.412

1)

269	153	234	234
311	201	253	325
_____ > _____ > _____ > _____			

6)

126		47
324		108

2)

269	245	227	322
240	286	194	328
_____ > _____ > _____ > _____			

8)

166		196
253		269

3)

185	332	250	47
185	263	261	41
_____ > _____ > _____ > _____			

10)

204		170
132		103

4)

202	306	616	325
393	538	967	463
_____ > _____ > _____ > _____			

12)

250		266
186		204

5)

956	356	874	881
987	336	734	699
_____ > _____ > _____ > _____			

13)

130		146
233		250

14)

50		105
82		189

15)

232		101
323		128

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{234}{253} > \frac{269}{311} > \frac{153}{201} > \frac{234}{325}$
	0.925 0.865 0.761 0.720

2)	$\frac{227}{194} > \frac{269}{240} > \frac{322}{328} > \frac{245}{286}$
	1.170 1.121 0.982 0.857

3)	$\frac{332}{263} > \frac{47}{41} > \frac{185}{185} > \frac{250}{261}$
	1.262 1.146 1.000 0.958

4)	$\frac{325}{463} > \frac{616}{967} > \frac{306}{538} > \frac{202}{393}$
	0.702 0.637 0.569 0.514

5)	$\frac{881}{699} > \frac{874}{734} > \frac{356}{336} > \frac{956}{987}$
	1.260 1.191 1.060 0.969

6)	$\frac{126}{324} < \frac{0.389}{0.435}$
	168.09% <- 47 108
7)	$\frac{330}{276} < \frac{1.196}{1.376}$
	200.00% <- 172 125
8)	$\frac{166}{253} > \frac{0.656}{0.729}$
	91.86% <- 196 269
9)	$\frac{281}{309} < \frac{0.909}{0.912}$
	120.80% >- 238 261
10)	$\frac{204}{132} < \frac{1.545}{1.650}$
	18.07% <- 170 103
11)	$\frac{288}{307} < \frac{0.938}{0.907}$
	28.16% <- 194 214
12)	$\frac{250}{186} > \frac{1.344}{1.304}$
	48.45% >- 266 204
13)	$\frac{130}{233} > \frac{0.558}{0.584}$
	43.46% >- 146 250
14)	$\frac{50}{82} > \frac{0.610}{0.556}$
	6.40% >- 105 189
15)	$\frac{232}{323} < \frac{0.718}{0.789}$
	12.31% >- 101 128

1)

26	335	183	222
20	311	151	230
<hr/>			
_____	_____	_____	_____

6)

143	_____	113
330	_____	241
<hr/>		

2)

333	167	316	246
283	124	197	166
<hr/>			
_____	_____	_____	_____

8)

241	_____	179
297	_____	229
<hr/>		

3)

272	273	286	303
252	311	240	316
<hr/>			
_____	_____	_____	_____

9)

280	_____	80
296	_____	81
<hr/>		

4)

915	91	905	607
577	48	548	430
<hr/>			
_____	_____	_____	_____

10)

101	_____	196
87	_____	183
<hr/>		

5)

478	708	909	218
635	772	936	256
<hr/>			
_____	_____	_____	_____

11)

313	_____	134
293	_____	118
<hr/>		

12)

289	_____	291
81	_____	81
<hr/>		

13)

315	_____	108
142	_____	49
<hr/>		

14)

42	_____	111
120	_____	308
<hr/>		

15)

157	_____	209
293	_____	336
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{26}{20} > \frac{183}{151} > \frac{335}{311} > \frac{222}{230}$			
1.300	1.212	1.077	0.965

2)			
$\frac{316}{197} > \frac{246}{166} > \frac{167}{124} > \frac{333}{283}$			
1.604	1.482	1.347	1.177

3)			
$\frac{286}{240} > \frac{272}{252} > \frac{303}{316} > \frac{273}{311}$			
1.192	1.079	0.959	0.878

4)			
$\frac{91}{48} > \frac{905}{548} > \frac{915}{577} > \frac{607}{430}$			
1.896	1.651	1.586	1.412

5)			
$\frac{909}{936} > \frac{708}{772} > \frac{218}{256} > \frac{478}{635}$			
0.971	0.917	0.852	0.753

6)	$\frac{143}{330}$	26.55%	113
	0.433	<-	241
7)	$\frac{108}{335}$	36.93%	62
	0.322	<-	168
8)	$\frac{241}{297}$	74.19%	179
	0.811	<-	229
9)	$\frac{280}{296}$	34.64%	80
	0.946	<-	81
10)	$\frac{101}{87}$	250.00%	196
	1.161	<-	183
11)	$\frac{313}{293}$	94.06%	134
	1.068	<-	118
12)	$\frac{289}{81}$	133.58%	291
	3.568	<-	81
13)	$\frac{315}{142}$	0.69%	108
	2.218	<-	49
14)	$\frac{42}{120}$	191.67%	2.204
	0.350	<-	
15)	$\frac{157}{293}$	164.29%	111
	0.536	<-	308
		156.67%	0.360
		33.12%	209
		>	336
		14.68%	0.622

1)

182	189	222	149
213	205	285	212
_____ > _____ > _____ > _____			

6)

212		64
284		79

2)

73	192	144	119
168	338	311	243
_____ > _____ > _____ > _____			

8)

189		189
269		297

3)

331	248	120	330
196	126	68	207
_____ > _____ > _____ > _____			

10)

306		226
171		125

4)

633	268	253	281
971	386	425	530
_____ > _____ > _____ > _____			

11)

306		195
301		218

5)

609	734	653	444
929	941	953	740
_____ > _____ > _____ > _____			

13)

183		234
35		51

14)

149		105
134		91

15)

160		149
180		167

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{189}{205} > \frac{182}{213} > \frac{222}{285} > \frac{149}{212}$	0.922	0.854	0.779	0.703
----	---	-------	-------	-------	-------

2)	$\frac{192}{338} > \frac{119}{243} > \frac{144}{311} > \frac{73}{168}$	0.568	0.490	0.463	0.435
----	--	-------	-------	-------	-------

3)	$\frac{248}{126} > \frac{120}{68} > \frac{331}{196} > \frac{330}{207}$	1.968	1.765	1.689	1.594
----	--	-------	-------	-------	-------

4)	$\frac{268}{386} > \frac{633}{971} > \frac{253}{425} > \frac{281}{530}$	0.694	0.652	0.595	0.530
----	---	-------	-------	-------	-------

5)	$\frac{734}{941} > \frac{653}{953} > \frac{609}{929} > \frac{444}{740}$	0.780	0.685	0.656	0.600
----	---	-------	-------	-------	-------

6)	$\frac{212}{284}$	231.25%	<-	64	79
	0.746	259.49%	<-	0.810	
7)	$\frac{203}{172}$	9.85%	->	223	211
	1.180	22.67%	->	1.057	
8)	$\frac{189}{269}$	0.00%	->	189	297
	0.703	10.41%	->	0.636	
9)	$\frac{193}{160}$	14.51%	->	221	162
	1.206	1.25%	->	1.364	
10)	$\frac{306}{171}$	35.40%	<-	226	125
	1.789	36.80%	<-	1.808	
11)	$\frac{306}{301}$	56.92%	<-	195	218
	1.017	38.07%	<-	0.894	
12)	$\frac{86}{90}$	126.74%	->	195	201
	0.956	123.33%	->	0.970	
13)	$\frac{183}{35}$	27.87%	->	234	51
	5.229	45.71%	->	4.588	
14)	$\frac{149}{134}$	41.90%	<-	105	91
	1.112	47.25%	<-	1.154	
15)	$\frac{160}{180}$	7.38%	<-	149	167
	0.889	7.78%	<-	0.892	

1)

202	136	182	205
310	187	232	231
<hr/>			
_____ > _____ > _____ > _____			

6)

293		171
311		190
<hr/>		

2)

210	317	113	256
129	232	78	148
<hr/>			
_____ > _____ > _____ > _____			

8)

308		280
186		156
<hr/>		

3)

190	311	283	203
160	324	219	185
<hr/>			
_____ > _____ > _____ > _____			

10)

128		163
156		215
<hr/>		

4)

881	593	798	647
750	675	743	667
<hr/>			
_____ > _____ > _____ > _____			

12)

195		152
265		211
<hr/>		

5)

565	628	358	764
972	943	476	883
<hr/>			
_____ > _____ > _____ > _____			

14)

30		93
23		81
<hr/>		

15)

231		119
328		183
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{205}{231} > \frac{182}{232} > \frac{136}{187} > \frac{202}{310}$
	0.887 0.784 0.727 0.652

2)	$\frac{256}{148} > \frac{210}{129} > \frac{113}{78} > \frac{317}{232}$
	1.730 1.628 1.449 1.366

3)	$\frac{283}{219} > \frac{190}{160} > \frac{203}{185} > \frac{311}{324}$
	1.292 1.188 1.097 0.960

4)	$\frac{881}{750} > \frac{798}{743} > \frac{647}{667} > \frac{593}{675}$
	1.175 1.074 0.970 0.879

5)	$\frac{764}{883} > \frac{358}{476} > \frac{628}{943} > \frac{565}{972}$
	0.865 0.752 0.666 0.581

6)	$\frac{293}{311} < \frac{171}{190}$
	0.942 0.900
7)	$\frac{218}{199} < \frac{180}{146}$
	1.095 1.233
8)	$\frac{308}{186} < \frac{280}{156}$
	1.656 1.795
9)	$\frac{156}{294} > \frac{174}{328}$
	0.531 0.530
10)	$\frac{128}{156} > \frac{163}{215}$
	0.821 0.758
11)	$\frac{212}{101} > \frac{235}{108}$
	2.099 2.176
12)	$\frac{195}{265} > \frac{152}{211}$
	0.736 0.720
13)	$\frac{105}{104} > \frac{107}{109}$
	1.010 0.982
14)	$\frac{30}{23} > \frac{93}{81}$
	1.304 1.148
15)	$\frac{231}{328} > \frac{119}{183}$
	0.704 0.650

1)

255	270	277	37
236	219	200	25
<hr/>			
_____ > _____ > _____ > _____			

6)

300	_____	105
158	_____	49
<hr/>		

2)

220	329	203	282
224	311	160	246
<hr/>			
_____ > _____ > _____ > _____			

8)

103	_____	141
128	_____	189
<hr/>		

3)

224	124	199	173
197	119	240	180
<hr/>			
_____ > _____ > _____ > _____			

10)

185	_____	271
149	_____	208
<hr/>		

4)

590	713	840	597
590	901	936	712
<hr/>			
_____ > _____ > _____ > _____			

11)

154	_____	232
51	_____	83
<hr/>		

5)

658	226	425	884
817	297	438	999
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{37}{25} > \frac{277}{200} > \frac{270}{219} > \frac{255}{236}$
	1.480 1.385 1.233 1.081

2)	$\frac{203}{160} > \frac{282}{246} > \frac{329}{311} > \frac{220}{224}$
	1.269 1.146 1.058 0.982

3)	$\frac{224}{197} > \frac{124}{119} > \frac{173}{180} > \frac{199}{240}$
	1.137 1.042 0.961 0.829

4)	$\frac{590}{590} > \frac{840}{936} > \frac{597}{712} > \frac{713}{901}$
	1.000 0.897 0.838 0.791

5)	$\frac{425}{438} > \frac{884}{999} > \frac{658}{817} > \frac{226}{297}$
	0.970 0.885 0.805 0.761

6)	$\frac{300}{158}$	185.71%	105
	1.899	<-	49
		222.45%	2.143
7)	$\frac{107}{162}$	117.76%	233
	0.660	->	321
		98.15%	0.726
8)	$\frac{103}{128}$	36.89%	141
	0.805	->	189
		47.66%	0.746
9)	$\frac{163}{190}$	7.95%	151
	0.858	<-	153
		24.18%	0.987
10)	$\frac{185}{149}$	46.49%	271
	1.242	->	208
		39.60%	1.303
11)	$\frac{154}{51}$	50.65%	232
	3.020	->	83
		62.75%	2.795
12)	$\frac{85}{240}$	63.46%	52
	0.354	<-	127
		88.98%	0.409
13)	$\frac{41}{150}$	78.05%	73
	0.273	->	231
		54.00%	0.316
14)	$\frac{100}{48}$	221.00%	321
	2.083	->	162
		237.50%	1.981
15)	$\frac{279}{89}$	6.09%	296
	3.135	->	107
		20.22%	2.766

1)

267	340	278	71
152	226	138	45
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

228		133
303		153
_____	_____	_____

2)

243	338	188	253
105	160	103	97
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

324		213
146		89
_____	_____	_____

3)

187	252	184	176
259	290	289	221
_____	_____	_____	_____

_____ > _____ > _____ > _____

9)

81		331
60		240
_____	_____	_____

4)

991	561	284	920
592	313	148	427
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

218		115
211		97
_____	_____	_____

5)

314	500	484	542
461	866	901	864
_____	_____	_____	_____

_____ > _____ > _____ > _____

11)

305		212
187		137
_____	_____	_____

12)

322		96
335		89
_____	_____	_____

13)

207		273
116		162
_____	_____	_____

14)

161		265
104		154
_____	_____	_____

15)

332		49
133		20
_____	_____	_____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)						
278	>	267	>	71	>	340
138		152		45		226
2.014		1.757		1.578		1.504

2)						
253	>	243	>	338	>	188
97		105		160		103
2.608		2.314		2.113		1.825

3)						
252	>	176	>	187	>	184
290		221		259		289
0.869		0.796		0.722		0.637

4)						
920	>	284	>	561	>	991
427		148		313		592
2.155		1.919		1.792		1.674

5)						
314	>	542	>	500	>	484
461		864		866		901
0.681		0.627		0.577		0.537

6)	228	71.43%	133
	303	<-	153
	0.752	98.04%	0.869
7)	246	583.33%	36
	334	<-	49
	0.737	581.63%	0.735
8)	324	52.11%	213
	146	<-	89
	2.219	64.04%	2.393
9)	81	308.64%	331
	60	->	240
	1.350	300.00%	1.379
10)	218	89.57%	115
	211	<-	97
	1.033	117.53%	1.186
11)	305	43.87%	212
	187	<-	137
	1.631	36.50%	1.547
12)	322	235.42%	96
	335	<-	89
	0.961	276.40%	1.079
13)	207	31.88%	273
	116	->	162
	1.784	39.66%	1.685
14)	161	64.60%	265
	104	->	154
	1.548	48.08%	1.721
15)	332	577.55%	49
	133	<-	20
	2.496	565.00%	2.450

1)

78	166	146	132
173	328	256	202
<hr/>			
_____ > _____ > _____ > _____			

6)

273		240
328		285
<hr/>		

2)

24	270	30	264
14	136	20	201
<hr/>			
_____ > _____ > _____ > _____			

8)

311		176
171		84
<hr/>		

3)

233	77	257	341
204	82	305	340
<hr/>			
_____ > _____ > _____ > _____			

10)

331		224
148		89
<hr/>		

4)

999	994	499	342
714	823	458	357
<hr/>			
_____ > _____ > _____ > _____			

12)

51		68
107		148
<hr/>		

5)

650	905	427	331
757	969	568	420
<hr/>			
_____ > _____ > _____ > _____			

13)

282		137
153		71
<hr/>		

14)

304		232
339		240
<hr/>		

15)

128		281
82		176
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)

$$\frac{132}{202} > \frac{146}{256} > \frac{166}{328} > \frac{78}{173}$$

0.653	0.570	0.506	0.451
-------	-------	-------	-------

2)

$$\frac{270}{136} > \frac{24}{14} > \frac{30}{20} > \frac{264}{201}$$

1.985	1.714	1.500	1.313
-------	-------	-------	-------

3)

$$\frac{233}{204} > \frac{341}{340} > \frac{77}{82} > \frac{257}{305}$$

1.142	1.003	0.939	0.843
-------	-------	-------	-------

4)

$$\frac{999}{714} > \frac{994}{823} > \frac{499}{458} > \frac{342}{357}$$

1.399	1.208	1.090	0.958
-------	-------	-------	-------

5)

$$\frac{905}{969} > \frac{650}{757} > \frac{331}{420} > \frac{427}{568}$$

0.934	0.859	0.788	0.752
-------	-------	-------	-------

6)	$\frac{273}{328}$	13.75%	240
	0.832	<-	285
		15.09%	0.842
7)	$\frac{164}{113}$	59.76%	262
	1.451	->	171
		51.33%	1.532
8)	$\frac{311}{171}$	76.70%	176
	1.819	<-	84
		103.57%	2.095
9)	$\frac{85}{14}$	10.39%	77
	6.071	<-	12
		16.67%	6.417
10)	$\frac{331}{148}$	47.77%	224
	2.236	<-	89
		66.29%	2.517
11)	$\frac{306}{319}$	23.89%	247
	0.959	<-	241
		32.37%	1.025
12)	$\frac{51}{107}$	33.33%	68
	0.477	->	148
		38.32%	0.459
13)	$\frac{282}{153}$	105.84%	137
	1.843	<-	71
		115.49%	1.930
14)	$\frac{304}{339}$	31.03%	232
	0.897	<-	240
		41.25%	0.967
15)	$\frac{128}{82}$	119.53%	281
	1.561	->	176
		114.63%	1.597

1)

203	315	307	255
209	272	300	233
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

6)

114		138
251		263
<hr/> <hr/>		

2)

301	303	212	193
287	306	230	234
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

8)

161		71
220		109
<hr/> <hr/>		

3)

77	48	103	218
27	12	29	66
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

10)

87		231
54		140
<hr/> <hr/>		

4)

314	739	867	912
216	402	554	529
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

12)

290		140
167		83
<hr/> <hr/>		

5)

364	570	704	771
292	476	615	576
<hr/> <hr/> <hr/> <hr/>			
_____ > _____ > _____ > _____			

13)

177		245
166		213
<hr/> <hr/>		

14)

224		318
98		141
<hr/> <hr/>		

15)

147		125
274		216
<hr/> <hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{315}{272} > \frac{255}{233} > \frac{307}{300} > \frac{203}{209}$		
1.158	1.094	1.023	0.971

2)	$\frac{301}{287} > \frac{303}{306} > \frac{212}{230} > \frac{193}{234}$		
1.049	0.990	0.922	0.825

3)	$\frac{48}{12} > \frac{103}{29} > \frac{218}{66} > \frac{77}{27}$		
4.000	3.552	3.303	2.852

4)	$\frac{739}{402} > \frac{912}{529} > \frac{867}{554} > \frac{314}{216}$		
1.838	1.724	1.565	1.454

5)	$\frac{771}{576} > \frac{364}{292} > \frac{570}{476} > \frac{704}{615}$		
1.339	1.247	1.197	1.145

6)	$\frac{114}{251}$	21.05%	138
	0.454	->	263
		4.78%	0.525
7)	$\frac{180}{301}$	13.92%	158
	0.598	<-	276
		9.06%	0.572
8)	$\frac{161}{220}$	126.76%	71
	0.732	<-	109
		101.83%	0.651
9)	$\frac{272}{236}$	11.40%	303
	1.153	->	242
		2.54%	1.252
10)	$\frac{87}{54}$	165.52%	231
	1.611	->	140
		159.26%	1.650
11)	$\frac{239}{178}$	20.50%	288
	1.343	->	185
		3.93%	1.557
12)	$\frac{290}{167}$	107.14%	140
	1.737	<-	83
		101.20%	1.687
13)	$\frac{177}{166}$	38.42%	245
	1.066	->	213
		28.31%	1.150
14)	$\frac{224}{98}$	41.96%	318
	2.286	->	141
		43.88%	2.255
15)	$\frac{147}{274}$	17.60%	125
	0.536	<-	216
		26.85%	0.579

1)

308	245	233	295
328	209	223	263
<hr/>			
_____ > _____ > _____ > _____			

6)

192		145
271		204
<hr/>		

2)

47	120	272	248
52	146	263	229
<hr/>			
_____ > _____ > _____ > _____			

8)

306		64
240		54
<hr/>		

3)

200	45	209	241
225	48	192	243
<hr/>			
_____ > _____ > _____ > _____			

10)

308		287
88		78
<hr/>		

4)

769	726	911	274
917	971	986	340
<hr/>			
_____ > _____ > _____ > _____			

11)

240		185
332		253
<hr/>		

5)

343	505	719	893
438	675	840	912
<hr/>			
_____ > _____ > _____ > _____			

13)

169		276
173		305
<hr/>		

14)

243		287
103		119
<hr/>		

15)

165		228
242		301
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{245}{209} > \frac{295}{263} > \frac{233}{223} > \frac{308}{328}$			
1.172	1.122	1.045	0.939

2)			
$\frac{248}{229} > \frac{272}{263} > \frac{47}{52} > \frac{120}{146}$			
1.083	1.034	0.904	0.822

3)			
$\frac{209}{192} > \frac{241}{243} > \frac{45}{48} > \frac{200}{225}$			
1.089	0.992	0.938	0.889

4)			
$\frac{911}{986} > \frac{769}{917} > \frac{274}{340} > \frac{726}{971}$			
0.924	0.839	0.806	0.748

5)			
$\frac{893}{912} > \frac{719}{840} > \frac{343}{438} > \frac{505}{675}$			
0.979	0.856	0.783	0.748

6)	$\frac{192}{271}$	32.41%	145
	0.708	<-	204
		32.84%	0.711
7)	$\frac{177}{187}$	61.02%	285
	0.947	->	287
		53.48%	0.993
8)	$\frac{306}{240}$	378.13%	64
	1.275	<-	54
		344.44%	1.185
9)	$\frac{80}{153}$	110.53%	38
	0.523	<-	81
		88.89%	0.469
10)	$\frac{308}{88}$	7.32%	287
	3.500	<-	78
		12.82%	3.679
11)	$\frac{240}{332}$	29.73%	185
	0.723	<-	253
		31.23%	0.731
12)	$\frac{18}{111}$	12.50%	16
	0.162	<-	91
		21.98%	0.176
13)	$\frac{169}{173}$	63.31%	276
	0.977	->	305
		76.30%	0.905
14)	$\frac{243}{103}$	18.11%	287
	2.359	->	119
		15.53%	2.412
15)	$\frac{165}{242}$	38.18%	228
	0.682	->	301
		24.38%	0.757

1)

78	334	299	80
68	307	237	57
<hr/>			
_____ > _____ > _____ > _____			

6)

237		125
284		170
<hr/>		

2)

246	327	241	276
178	189	152	143
<hr/>			
_____ > _____ > _____ > _____			

8)

194		320
218		339
<hr/>		

3)

277	228	273	206
315	221	338	225
<hr/>			
_____ > _____ > _____ > _____			

10)

208		263
97		107
<hr/>		

4)

545	743	561	558
137	221	185	155
<hr/>			
_____ > _____ > _____ > _____			

11)

257		197
47		38
<hr/>		

5)

539	544	390	744
591	796	493	724
<hr/>			
_____ > _____ > _____ > _____			

12)

306		181
198		106
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{80}{57} > \frac{299}{237} > \frac{78}{68} > \frac{334}{307}$
1.404	1.262
1.147	1.088

2)	$\frac{276}{143} > \frac{327}{189} > \frac{241}{152} > \frac{246}{178}$
1.930	1.730
1.586	1.382

3)	$\frac{228}{221} > \frac{206}{225} > \frac{277}{315} > \frac{273}{338}$
1.032	0.916
0.879	0.808

4)	$\frac{545}{137} > \frac{558}{155} > \frac{743}{221} > \frac{561}{185}$
3.978	3.600
3.362	3.032

5)	$\frac{744}{724} > \frac{539}{591} > \frac{390}{493} > \frac{544}{796}$
1.028	0.912
0.791	0.683

6)	$\frac{237}{284} < \frac{284}{0.835} < \frac{0.835}{55.10\%}$
125	170
0.735	0.735
196	177
1.107	1.107
320	339
0.944	0.944
223	165
1.352	1.352
263	107
2.458	2.458
197	38
5.184	5.184
181	106
1.708	1.708
58	172
0.337	0.337
222	167
1.329	1.329
220	164
1.341	1.341

1)

129	172	281	200
171	261	340	324
<hr/>			
_____ > _____ > _____ > _____			

6)

139		266
158		294
<hr/>		

2)

341	332	270	56
298	329	298	67
<hr/>			
_____ > _____ > _____ > _____			

8)

214		291
235		275
<hr/>		

3)

184	115	64	274
153	106	44	218
<hr/>			
_____ > _____ > _____ > _____			

10)

245		136
201		104
<hr/>		

4)

741	870	809	621
935	937	916	875
<hr/>			
_____ > _____ > _____ > _____			

11)

195		240
92		129
<hr/>		

5)

554	579	811	469
356	465	690	349
<hr/>			
_____ > _____ > _____ > _____			

13)

86		144
119		204
<hr/>		

14)

170		182
277		304
<hr/>		

15)

308		248
281		201
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{281}{340} > \frac{129}{171} > \frac{172}{261} > \frac{200}{324}$			
0.826	0.754	0.659	0.617

2)			
$\frac{341}{298} > \frac{332}{329} > \frac{270}{298} > \frac{56}{67}$			
1.144	1.009	0.906	0.836

3)			
$\frac{64}{44} > \frac{274}{218} > \frac{184}{153} > \frac{115}{106}$			
1.455	1.257	1.203	1.085

4)			
$\frac{870}{937} > \frac{809}{916} > \frac{741}{935} > \frac{621}{875}$			
0.928	0.883	0.793	0.710

5)			
$\frac{554}{356} > \frac{469}{349} > \frac{579}{465} > \frac{811}{690}$			
1.556	1.344	1.245	1.175

6)	$\frac{139}{158}$	91.37%	266
	0.880	->	294
		86.08%	0.905
7)	$\frac{302}{301}$	11.03%	272
	1.003	<-	294
		2.38%	0.925
8)	$\frac{214}{235}$	35.98%	291
	0.911	->	275
		17.02%	1.058
9)	$\frac{218}{178}$	109.62%	104
	1.225	<-	81
		119.75%	1.284
10)	$\frac{245}{201}$	80.15%	136
	1.219	<-	104
		93.27%	1.308
11)	$\frac{195}{92}$	23.08%	240
	2.120	->	129
		40.22%	1.860
12)	$\frac{93}{161}$	19.23%	78
	0.578	->	141
		14.18%	0.553
13)	$\frac{86}{119}$	67.44%	144
	0.723	->	204
		71.43%	0.706
14)	$\frac{170}{277}$	7.06%	182
	0.614	->	304
		9.75%	0.599
15)	$\frac{308}{281}$	24.19%	248
	1.096	<-	201
		39.80%	1.234

1)

276	319	298	304
92	94	76	81
<hr/>			
_____ > _____ > _____ > _____			

6)

278		302
276		336
<hr/>		

2)

200	194	231	235
255	210	272	236
<hr/>			
_____ > _____ > _____ > _____			

8)

187		75
339		136
<hr/>		

3)

257	214	324	260
278	219	294	213
<hr/>			
_____ > _____ > _____ > _____			

10)

53		40
33		25
<hr/>		

4)

983	262	940	755
921	260	780	794
<hr/>			
_____ > _____ > _____ > _____			

11)

292		84
319		100
<hr/>		

5)

59	282	922	846
76	316	874	889
<hr/>			
_____ > _____ > _____ > _____			

13)

233		103
223		92
<hr/>		

14)

79		56
75		52
<hr/>		

15)

331		59
167		29
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
298	>	304	>	319	>	276
76		81		94		92
3.921		3.753		3.394		3.000

2)						
235	>	194	>	231	>	200
236		210		272		255
0.996		0.924		0.849		0.784

3)						
260	>	324	>	214	>	257
213		294		219		278
1.221		1.102		0.977		0.924

4)						
940	>	983	>	262	>	755
780		921		260		794
1.205		1.067		1.008		0.951

5)						
922	>	846	>	282	>	59
874		889		316		76
1.055		0.952		0.892		0.776

6)	278	8.63%	302
	276	->	336
	1.007	21.74%	0.899
7)	248	28.50%	193
	298	<-	214
	0.832	39.25%	0.902
8)	187	149.33%	75
	339	<-	136
	0.552	149.26%	0.551
9)	307	98.06%	155
	340	<-	148
	0.903	129.73%	1.047
10)	53	32.50%	40
	33	<-	25
	1.606	32.00%	1.600
11)	292	247.62%	84
	319	<-	100
	0.915	219.00%	0.840
12)	314	79.43%	175
	229	<-	115
	1.371	99.13%	1.522
13)	233	126.21%	103
	223	<-	92
	1.045	142.39%	1.120
14)	79	41.07%	56
	75	<-	52
	1.053	44.23%	1.077
15)	331	461.02%	59
	167	<-	29
	1.982	475.86%	2.034

1)

192	200	270	131
238	167	258	145
<hr/>			
_____ > _____ > _____ > _____			

6)

334		150
315		154
<hr/>		

2)

285	164	260	334
305	146	218	330
<hr/>			
_____ > _____ > _____ > _____			

8)

182		225
169		186
<hr/>		

3)

181	147	242	253
180	167	251	310
<hr/>			
_____ > _____ > _____ > _____			

10)

140		163
228		273
<hr/>		

4)

394	725	598	645
490	860	899	878
<hr/>			
_____ > _____ > _____ > _____			

12)

186		217
261		320
<hr/>		

5)

294	263	330	570
469	360	571	818
<hr/>			
_____ > _____ > _____ > _____			

13)

170		269
152		242
<hr/>		

14)

283		72
320		76
<hr/>		

15)

103		30
292		76
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{200}{167} > \frac{270}{258} > \frac{131}{145} > \frac{192}{238}$			
1.198	1.047	0.903	0.807

2)			
$\frac{260}{218} > \frac{164}{146} > \frac{334}{330} > \frac{285}{305}$			
1.193	1.123	1.012	0.934

3)			
$\frac{181}{180} > \frac{242}{251} > \frac{147}{167} > \frac{253}{310}$			
1.006	0.964	0.880	0.816

4)			
$\frac{725}{860} > \frac{394}{490} > \frac{645}{878} > \frac{598}{899}$			
0.843	0.804	0.735	0.665

5)			
$\frac{263}{360} > \frac{570}{818} > \frac{294}{469} > \frac{330}{571}$			
0.731	0.697	0.627	0.578

6)	334	122.67%	150
	315	<-	154
	1.060	104.55%	0.974
7)	63	50.00%	42
	143	<-	102
	0.441	40.20%	0.412
8)	182	23.63%	225
	169	->	186
	1.077	10.06%	1.210
9)	194	16.49%	226
	262	->	335
	0.740	27.86%	0.675
10)	140	16.43%	163
	228	->	273
	0.614	19.74%	0.597
11)	137	328.13%	32
	283	<-	73
	0.484	287.67%	0.438
12)	186	16.67%	217
	261	->	320
	0.713	22.61%	0.678
13)	170	58.24%	269
	152	->	242
	1.118	59.21%	1.112
14)	283	293.06%	72
	320	<-	76
	0.884	321.05%	0.947
15)	103	243.33%	30
	292	<-	76
	0.353	284.21%	0.395

1)

263	164	278	189
291	150	278	197
<hr/>			
_____ > _____ > _____ > _____			

6)

218		165
264		188
<hr/>		

2)

233	157	240	78
310	195	270	111
<hr/>			
_____ > _____ > _____ > _____			

8)

130		117
278		263
<hr/>		

3)

164	259	280	166
228	312	306	253
<hr/>			
_____ > _____ > _____ > _____			

10)

106		219
132		307
<hr/>		

4)

950	546	798	969
634	394	668	769
<hr/>			
_____ > _____ > _____ > _____			

11)

293		178
343		232
<hr/>		

5)

557	810	811	589
521	821	712	670
<hr/>			
_____ > _____ > _____ > _____			

13)

224		125
67		38
<hr/>		

14)

138		251
36		61
<hr/>		

15)

109		117
310		310
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
164	>	278	>	189	>	263
150	278	197	291			
1.093	1.000	0.959	0.904			

2)						
240	>	157	>	233	>	78
270	195	310	111			
0.889	0.805	0.752	0.703			

3)						
280	>	259	>	164	>	166
306	312	228	253			
0.915	0.830	0.719	0.656			

4)						
950	>	546	>	969	>	798
634	394	769	668			
1.498	1.386	1.260	1.195			

5)						
811	>	557	>	810	>	589
712	521	821	670			
1.139	1.069	0.987	0.879			

6)	218	32.12%	165
	264	<-	188
	0.826	40.43%	0.878
7)	220	30.00%	286
	241	->	334
	0.913	38.59%	0.856
8)	130	11.11%	117
	278	<-	263
	0.468	5.70%	0.445
9)	192	69.27%	325
	137	->	203
	1.401	48.18%	1.601
10)	106	106.60%	219
	132	->	307
	0.803	132.58%	0.713
11)	293	64.61%	178
	343	<-	232
	0.854	47.84%	0.767
12)	78	95.00%	40
	287	<-	146
	0.272	96.58%	0.274
13)	224	79.20%	125
	67	<-	38
	3.343	76.32%	3.289
14)	138	81.88%	251
	36	->	61
	3.833	69.44%	4.115
15)	109	7.34%	117
	310	->	310
	0.352	0.00%	0.377

1)

193	88	230	144
131	50	136	89
<hr/>			
_____ > _____ > _____ > _____			

6)

140	_____	114
307	_____	280
<hr/>		

2)

257	303	267	314
221	275	218	320
<hr/>			
_____ > _____ > _____ > _____			

8)

180	_____	217
90	_____	107
<hr/>		

3)

166	111	183	119
279	245	321	242
<hr/>			
_____ > _____ > _____ > _____			

10)

28	_____	36
210	_____	279
<hr/>		

4)

477	783	866	801
398	605	842	702
<hr/>			
_____ > _____ > _____ > _____			

12)

276	_____	120
213	_____	92
<hr/>		

5)

238	742	682	807
351	779	870	916
<hr/>			
_____ > _____ > _____ > _____			

14)

245	_____	298
132	_____	170
<hr/>		

15)

120	_____	146
290	_____	319
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{88}{50} > \frac{230}{136} > \frac{144}{89} > \frac{193}{131}$
1.760	1.691

2)	$\frac{267}{218} > \frac{257}{221} > \frac{303}{275} > \frac{314}{320}$
1.225	1.163

3)	$\frac{166}{279} > \frac{183}{321} > \frac{119}{242} > \frac{111}{245}$
0.595	0.570

4)	$\frac{783}{605} > \frac{477}{398} > \frac{801}{702} > \frac{866}{842}$
1.294	1.198

5)	$\frac{742}{779} > \frac{807}{916} > \frac{682}{870} > \frac{238}{351}$
0.953	0.881

6)	$\frac{140}{307} < \frac{114}{280}$
0.456	0.407
22.81%	<-
16.18%	->
16.02%	->
20.56%	->
18.89%	->
146.49%	->
28.57%	->
32.86%	->
14.12%	->
130.00%	->
73.86%	->
77.22%	->
21.63%	->
28.79%	->
21.67%	->
10.00%	->

1)

134	157	229	190
235	196	323	291
<hr/>			
_____ > _____ > _____ > _____			

6)

224		177
170		127
<hr/>		

2)

114	250	189	285
111	258	173	241
<hr/>			
_____ > _____ > _____ > _____			

8)

266		232
195		162
<hr/>		

3)

197	183	296	260
165	173	294	296
<hr/>			
_____ > _____ > _____ > _____			

9)

320		179
233		132
<hr/>		

4)

695	987	680	756
613	908	715	630
<hr/>			
_____ > _____ > _____ > _____			

10)

100		282
60		153
<hr/>		

5)

371	318	59	185
798	777	175	508
<hr/>			
_____ > _____ > _____ > _____			

11)

259		91
117		37
<hr/>		

12)

127		41
338		104
<hr/>		

13)

248		325
178		252
<hr/>		

14)

148		90
299		160
<hr/>		

15)

333		96
311		91
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
157	>	229	>	190	>	134
196		323		291		235
0.801		0.709		0.653		0.570

2)						
285	>	189	>	114	>	250
241		173		111		258
1.183		1.092		1.027		0.969

3)						
197	>	183	>	296	>	260
165		173		294		296
1.194		1.058		1.007		0.878

4)						
756	>	695	>	987	>	680
630		613		908		715
1.200		1.134		1.087		0.951

5)						
371	>	318	>	185	>	59
798		777		508		175
0.465		0.409		0.364		0.337

6)	224	26.55%	177
	170	<-	127
	1.318	33.86%	1.394
7)	242	175.00%	88
	171	<-	67
	1.415	155.22%	1.313
8)	266	14.66%	232
	195	<-	162
	1.364	20.37%	1.432
9)	320	78.77%	179
	233	<-	132
	1.373	76.52%	1.356
10)	100	182.00%	282
	60	->	153
	1.667	155.00%	1.843
11)	259	184.62%	91
	117	<-	37
	2.214	216.22%	2.459
12)	127	209.76%	41
	338	<-	104
	0.376	225.00%	0.394
13)	248	31.05%	325
	178	->	252
	1.393	41.57%	1.290
14)	148	64.44%	90
	299	<-	160
	0.495	86.88%	0.563
15)	333	246.88%	96
	311	<-	91
	1.071	241.76%	1.055

1)

212	168	113	181
325	240	207	306
_____ > _____ > _____ > _____			

6)

154		87
220		138

2)

32	228	124	206
30	204	132	167
_____ > _____ > _____ > _____			

8)

137		62
28		13

3)

298	232	318	339
269	193	235	270
_____ > _____ > _____ > _____			

10)

224		131
149		98

4)

916	489	607	164
902	553	635	207
_____ > _____ > _____ > _____			

12)

316		275
84		64

5)

598	616	909	252
450	394	745	174
_____ > _____ > _____ > _____			

14)

93		150
204		317

15)

186		285
97		138

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
168	>	212	>	181	>	113
240		325		306		207
0.700		0.652		0.592		0.546

2)						
206	>	228	>	32	>	124
167		204		30		132
1.234		1.118		1.067		0.939

3)						
318	>	339	>	232	>	298
235		270		193		269
1.353		1.256		1.202		1.108

4)						
916	>	607	>	489	>	164
902		635		553		207
1.016		0.956		0.884		0.792

5)						
616	>	252	>	598	>	909
394		174		450		745
1.563		1.448		1.329		1.220

6)	154	77.01%	87
	220	<-	138
	0.700	59.42%	0.630
7)	63	92.06%	121
	101	->	173
	0.624	71.29%	0.699
8)	137	120.97%	62
	28	<-	13
	4.893	115.38%	4.769
9)	304	47.57%	206
	337	<-	202
	0.902	66.83%	1.020
10)	224	70.99%	131
	149	<-	98
	1.503	52.04%	1.337
11)	224	17.86%	264
	127	->	164
	1.764	29.13%	1.610
12)	316	14.91%	275
	84	<-	64
	3.762	31.25%	4.297
13)	141	291.67%	36
	82	<-	23
	1.720	256.52%	1.565
14)	93	61.29%	150
	204	->	317
	0.456	55.39%	0.473
15)	186	53.23%	285
	97	->	138
	1.918	42.27%	2.065

1)

217	211	182	334
186	151	175	258
<hr/>			
_____	_____	_____	_____

6)

283	_____	289
230	_____	255
<hr/>		

2)

143	322	143	242
166	323	194	308
<hr/>			
_____	_____	_____	_____

7)

219	_____	90
302	_____	126
<hr/>		

3)

43	110	90	160
60	137	106	171
<hr/>			
_____	_____	_____	_____

8)

313	_____	205
171	_____	126
<hr/>		

4)

526	200	259	482
957	302	527	757
<hr/>			
_____	_____	_____	_____

9)

169	_____	253
254	_____	334
<hr/>		

5)

305	472	258	173
665	801	498	393
<hr/>			
_____	_____	_____	_____

10)

137	_____	266
147	_____	304
<hr/>		

11)

273	_____	221
311	_____	261
<hr/>		

12)

257	_____	195
228	_____	164
<hr/>		

13)

332	_____	308
250	_____	211
<hr/>		

14)

286	_____	330
24	_____	26
<hr/>		

15)

291	_____	146
117	_____	51
<hr/>		

For each incorrect answer,
15" is added to the time
taken to solve problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{211}{151} > \frac{334}{258} > \frac{217}{186} > \frac{182}{175}$
	1.397 1.295 1.167 1.040

2)	$\frac{322}{323} > \frac{143}{166} > \frac{242}{308} > \frac{143}{194}$
	0.997 0.861 0.786 0.737

3)	$\frac{160}{171} > \frac{90}{106} > \frac{110}{137} > \frac{43}{60}$
	0.936 0.849 0.803 0.717

4)	$\frac{200}{302} > \frac{482}{757} > \frac{526}{957} > \frac{259}{527}$
	0.662 0.637 0.550 0.491

5)	$\frac{472}{801} > \frac{258}{498} > \frac{305}{665} > \frac{173}{393}$
	0.589 0.518 0.459 0.440

6)	$\frac{283}{230} > \frac{230}{1.230}$
	2.12% -> 289 255
7)	$\frac{219}{302} < \frac{302}{0.725}$
	10.87% -> 1.133 0.714
8)	$\frac{313}{171} < \frac{171}{1.830}$
	143.33% <- 90 126
9)	$\frac{169}{254} > \frac{254}{0.665}$
	52.68% <- 205 126
10)	$\frac{137}{147} > \frac{147}{0.932}$
	35.71% <- 1.627 0.757
11)	$\frac{273}{311} < \frac{311}{0.878}$
	49.70% >-> 253 334
12)	$\frac{257}{228} < \frac{228}{1.127}$
	94.16% >-> 266 304
13)	$\frac{332}{250} < \frac{250}{1.328}$
	23.53% <-<- 221 261
14)	$\frac{286}{24} > \frac{24}{11.917}$
	19.16% >-> 195 164
15)	$\frac{291}{117} < \frac{117}{2.487}$
	31.79% <-<- 1.189 0.847
	39.02% <-<- 1.460 1.460
	7.79% <-<- 12.692 12.692
	18.48% <-<- 1.460 1.460
	15.38% <-<- 12.692 12.692
	8.33% <-<- 1.460 1.460
	99.32% <-<- 12.692 12.692
	129.41% <-<- 2.863 2.863

1)

73	69	258	171
119	101	338	265
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

6)

194	_____	116
281	_____	164
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

2)

85	66	47	110
206	134	104	202
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

8)

174	_____	234
54	_____	78
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

3)

168	205	217	282
198	203	291	319
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

9)

191	_____	316
140	_____	230
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

4)

289	789	849	538
245	826	807	490
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

10)

276	_____	79
288	_____	73
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

5)

984	495	649	955
655	393	461	610
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>			
_____	_____	_____	_____

11)

63	_____	190
21	_____	58
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

12)

225	_____	175
86	_____	70
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
258	>	69	>	171	>	73
338		101		265		119
0.763		0.683		0.645		0.613

2)						
110	>	66	>	47	>	85
202		134		104		206
0.545		0.493		0.452		0.413

3)						
205	>	282	>	168	>	217
203		319		198		291
1.010		0.884		0.848		0.746

4)						
289	>	538	>	849	>	789
245		490		807		826
1.180		1.098		1.052		0.955

5)						
955	>	984	>	649	>	495
610		655		461		393
1.566		1.502		1.408		1.260

6)	194	67.24%	116
	281	<-	164
	0.690	71.34%	0.707
7)	102	200.00%	34
	280	<-	84
	0.364	233.33%	0.405
8)	174	34.48%	234
	54	->	78
	3.222	44.44%	3.000
9)	191	65.45%	316
	140	->	230
	1.364	64.29%	1.374
10)	276	249.37%	79
	288	<-	73
	0.958	294.52%	1.082
11)	63	201.59%	190
	21	->	58
	3.000	176.19%	3.276
12)	225	28.57%	175
	86	<-	70
	2.616	22.86%	2.500
13)	248	5.98%	234
	235	<-	207
	1.055	13.53%	1.130
14)	269	14.50%	308
	177	->	198
	1.520	11.86%	1.556
15)	211	14.67%	184
	132	<-	99
	1.598	33.33%	1.859

1)

143	281	245	269
194	278	279	331
<hr/>			
_____ > _____ > _____ > _____			

6)

54	_____	122
108	_____	228
<hr/>		

2)

106	59	62	90
307	218	216	274
<hr/>			
_____ > _____ > _____ > _____			

8)

187	_____	73
292	_____	115
<hr/>		

3)

294	195	319	87
129	97	177	54
<hr/>			
_____ > _____ > _____ > _____			

9)

64	_____	80
196	_____	268
<hr/>		

4)

814	533	737	884
800	712	897	945
<hr/>			
_____ > _____ > _____ > _____			

10)

200	_____	77
326	_____	117
<hr/>		

5)

641	134	585	789
795	181	647	800
<hr/>			
_____ > _____ > _____ > _____			

11)

150	_____	304
100	_____	207
<hr/>		

12)

253	_____	149
332	_____	214
<hr/>		

13)

250	_____	214
311	_____	262
<hr/>		

14)

84	_____	137
171	_____	240
<hr/>		

15)

316	_____	334
124	_____	144
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)			
$\frac{281}{278} > \frac{245}{279} > \frac{269}{331} > \frac{143}{194}$			
1.011	0.878	0.813	0.737

2)			
$\frac{106}{307} > \frac{90}{274} > \frac{62}{216} > \frac{59}{218}$			
0.345	0.328	0.287	0.271

3)			
$\frac{294}{129} > \frac{195}{97} > \frac{319}{177} > \frac{87}{54}$			
2.279	2.010	1.802	1.611

4)			
$\frac{814}{800} > \frac{884}{945} > \frac{737}{897} > \frac{533}{712}$			
1.018	0.935	0.822	0.749

5)			
$\frac{789}{800} > \frac{585}{647} > \frac{641}{795} > \frac{134}{181}$			
0.986	0.904	0.806	0.740

6)	$\frac{54}{108}$	125.93%	122
	0.500	->	228
		111.11%	0.535
7)	$\frac{216}{157}$	6.40%	203
	1.376	<-	135
		16.30%	1.504
8)	$\frac{187}{292}$	156.16%	73
	0.640	<-	115
		153.91%	0.635
9)	$\frac{64}{196}$	25.00%	80
	0.327	>-	268
		36.73%	0.299
10)	$\frac{200}{326}$	159.74%	77
	0.613	<-	117
		178.63%	0.658
11)	$\frac{150}{100}$	102.67%	304
	1.500	>-	207
		107.00%	1.469
12)	$\frac{253}{332}$	69.80%	149
	0.762	<-	214
		55.14%	0.696
13)	$\frac{250}{311}$	16.82%	214
	0.804	<-	262
		18.70%	0.817
14)	$\frac{84}{171}$	63.10%	214
	0.491	>-	240
		40.35%	0.571
15)	$\frac{316}{124}$	5.70%	137
	2.548	>-	334
		16.13%	144
			2.319

1)

76	151	198	139
88	141	253	146
_____ > _____ > _____ > _____			

6)

75		143
94		183

2)

284	246	335	238
120	115	170	129
_____ > _____ > _____ > _____			

8)

155		76
152		69

3)

260	267	304	305
125	116	177	162
_____ > _____ > _____ > _____			

10)

214		157
271		175

4)

434	871	914	490
405	754	945	404
_____ > _____ > _____ > _____			

12)

163		88
248		131

5)

251	231	271	150
869	913	894	431
_____ > _____ > _____ > _____			

13)

134		244
100		198

14)

332		280
199		168

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)						
151	>	139	>	76	>	198
141		146		88		253
1.071		0.952		0.864		0.783

2)						
284	>	246	>	335	>	238
120		115		170		129
2.367		2.139		1.971		1.845

3)						
267	>	260	>	305	>	304
116		125		162		177
2.302		2.080		1.883		1.718

4)						
490	>	871	>	434	>	914
404		754		405		945
1.213		1.155		1.072		0.967

5)						
150	>	271	>	251	>	231
431		894		869		913
0.348		0.303		0.289		0.253

6)	75	90.67%	143
	94	->	183
	0.798	94.68%	0.781
7)	223	15.54%	193
	224	<-	216
	0.996	3.70%	0.894
8)	155	103.95%	76
	152	<-	69
	1.020	120.29%	1.101
9)	251	12.56%	223
	164	<-	161
	1.530	1.86%	1.385
10)	214	36.31%	157
	271	<-	175
	0.790	54.86%	0.897
11)	87	45.98%	127
	147	->	220
	0.592	49.66%	0.577
12)	163	85.23%	88
	248	<-	131
	0.657	89.31%	0.672
13)	134	82.09%	244
	100	->	198
	1.340	98.00%	1.232
14)	332	18.57%	280
	199	<-	168
	1.668	18.45%	1.667
15)	102	114.71%	219
	124	->	295
	0.823	137.90%	0.742

1)

162	143	75	227
321	257	118	331
<hr/>			
_____ > _____ > _____ > _____			

6)

130		48
332		116
<hr/>		

2)

279	325	177	296
254	272	204	311
<hr/>			
_____ > _____ > _____ > _____			

8)

124		272
110		265
<hr/>		

3)

336	26	140	234
231	20	117	217
<hr/>			
_____ > _____ > _____ > _____			

10)

127		160
290		321
<hr/>		

4)

533	468	529	428
778	555	832	557
<hr/>			
_____ > _____ > _____ > _____			

12)

333		170
187		102
<hr/>		

5)

424	412	449	554
539	571	684	637
<hr/>			
_____ > _____ > _____ > _____			

13)

142		13
126		11
<hr/>		

14)

240		287
224		237
<hr/>		

15)

190		294
173		235
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{227}{331} > \frac{75}{118} > \frac{143}{257} > \frac{162}{321}$
	0.686 0.636 0.556 0.505

2)	$\frac{325}{272} > \frac{279}{254} > \frac{296}{311} > \frac{177}{204}$
	1.195 1.098 0.952 0.868

3)	$\frac{336}{231} > \frac{26}{20} > \frac{140}{117} > \frac{234}{217}$
	1.455 1.300 1.197 1.078

4)	$\frac{468}{555} > \frac{428}{557} > \frac{533}{778} > \frac{529}{832}$
	0.843 0.768 0.685 0.636

5)	$\frac{554}{637} > \frac{424}{539} > \frac{412}{571} > \frac{449}{684}$
	0.870 0.787 0.722 0.656

6)	$\frac{130}{332}$	170.83% <- <- 48 116 0.414
	0.392	186.21%
7)	$\frac{279}{314}$	19.23% <- <- 234 240 0.975
	0.889	30.83%
8)	$\frac{124}{110}$	119.35% -> -> 272 265 1.026
	1.127	140.91%
9)	$\frac{200}{300}$	76.99% <- <- 113 175 0.646
	0.667	71.43%
10)	$\frac{127}{290}$	25.98% -> -> 160 321 0.498
	0.438	10.69%
11)	$\frac{158}{104}$	6.33% -> -> 168 117 1.436
	1.519	12.50%
12)	$\frac{333}{187}$	95.88% <- <- 170 102 1.667
	1.781	83.33%
13)	$\frac{142}{126}$	992.31% <- <- 13 11 1.182
	1.127	#####
14)	$\frac{240}{224}$	19.58% -> -> 287 237 1.211
	1.071	5.80%
15)	$\frac{190}{173}$	54.74% -> -> 294 235 1.251
	1.098	35.84%

1)

179	229	222	227
156	145	162	188
<hr/>			
_____ > _____ > _____ > _____			

6)

307		305
273		266
<hr/>		

2)

340	196	226	282
336	221	285	242
<hr/>			
_____ > _____ > _____ > _____			

8)

156		156
206		185
<hr/>		

3)

123	237	271	106
73	180	219	71
<hr/>			
_____ > _____ > _____ > _____			

10)

67		88
226		327
<hr/>		

4)

887	835	215	754
846	718	258	796
<hr/>			
_____ > _____ > _____ > _____			

11)

21		110
55		321
<hr/>		

5)

231	584	359	879
304	658	435	929
<hr/>			
_____ > _____ > _____ > _____			

13)

33		99
53		151
<hr/>		

14)

264		138
339		179
<hr/>		

15)

170		103
55		34
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{229}{145} > \frac{222}{162} > \frac{227}{188} > \frac{179}{156}$			
1.579	1.370	1.207	1.147

2)			
$\frac{282}{242} > \frac{340}{336} > \frac{196}{221} > \frac{226}{285}$			
1.165	1.012	0.887	0.793

3)			
$\frac{123}{73} > \frac{106}{71} > \frac{237}{180} > \frac{271}{219}$			
1.685	1.493	1.317	1.237

4)			
$\frac{835}{718} > \frac{887}{846} > \frac{754}{796} > \frac{215}{258}$			
1.163	1.048	0.947	0.833

5)			
$\frac{879}{929} > \frac{584}{658} > \frac{359}{435} > \frac{231}{304}$			
0.946	0.888	0.825	0.760

6)	$\frac{307}{273}$	0.66%	305
	1.125	<-	266
		2.63%	1.147
7)	$\frac{187}{196}$	42.78%	267
	0.954	->	269
		37.24%	0.993
8)	$\frac{156}{206}$	0.00%	156
	0.757	->	185
		11.35%	0.843
9)	$\frac{121}{173}$	40.50%	170
	0.699	->	232
		34.10%	0.733
10)	$\frac{67}{226}$	31.34%	88
	0.296	->	327
		44.69%	0.269
11)	$\frac{21}{55}$	423.81%	110
	0.382	->	321
		483.64%	0.343
12)	$\frac{251}{291}$	25.50%	200
	0.863	->	233
		24.89%	0.858
13)	$\frac{33}{53}$	200.00%	99
	0.623	->	151
		184.91%	0.656
14)	$\frac{264}{339}$	91.30%	138
	0.779	->	179
		89.39%	0.771
15)	$\frac{170}{55}$	65.05%	103
	3.091	->	34
		61.76%	3.029

1)

341	332	275	184
215	245	186	148
<hr/>			
_____ > _____ > _____ > _____			

6)

130		161
49		62
<hr/>		

2)

89	106	336	219
104	102	283	225
<hr/>			
_____ > _____ > _____ > _____			

8)

330		300
254		221
<hr/>		

3)

317	220	199	165
325	258	192	205
<hr/>			
_____ > _____ > _____ > _____			

10)

153		205
203		253
<hr/>		

4)

43	569	443	614
52	790	476	911
<hr/>			
_____ > _____ > _____ > _____			

11)

237		299
186		251
<hr/>		

5)

897	971	880	717
932	857	710	661
<hr/>			
_____ > _____ > _____ > _____			

13)

288		254
131		104
<hr/>		

14)

305		233
206		139
<hr/>		

15)

142		103
333		273
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{341}{215} > \frac{275}{186} > \frac{332}{245} > \frac{184}{148}$
	1.586 1.478 1.355 1.243

2)	$\frac{336}{283} > \frac{106}{102} > \frac{219}{225} > \frac{89}{104}$
	1.187 1.039 0.973 0.856

3)	$\frac{199}{192} > \frac{317}{325} > \frac{220}{258} > \frac{165}{205}$
	1.036 0.975 0.853 0.805

4)	$\frac{443}{476} > \frac{43}{52} > \frac{569}{790} > \frac{614}{911}$
	0.931 0.827 0.720 0.674

5)	$\frac{880}{710} > \frac{971}{857} > \frac{717}{661} > \frac{897}{932}$
	1.239 1.133 1.085 0.962

6)	$\frac{130}{49} > \frac{2.653}{2.653}$
	23.85% -> 161 62
7)	$\frac{177}{56} < \frac{3.161}{3.161}$
	26.53% -> 2.597 2.923
8)	$\frac{330}{254} < \frac{1.299}{1.299}$
	55.26% -< 114 39
9)	$\frac{115}{122} > \frac{0.943}{0.943}$
	10.00% -< 300 221
10)	$\frac{153}{203} > \frac{0.754}{0.754}$
	14.93% -< 205 253
11)	$\frac{237}{186} > \frac{1.274}{1.274}$
	68.70% -> 194 209
12)	$\frac{155}{86} > \frac{1.802}{1.802}$
	71.31% -> 0.928
13)	$\frac{288}{131} < \frac{2.198}{2.198}$
	33.99% -> 205 253
14)	$\frac{305}{206} < \frac{1.481}{1.481}$
	24.63% -> 205 253
15)	$\frac{142}{333} < \frac{0.426}{0.426}$
	26.16% -> 299 251
	92.26% -> 1.191
12)	$\frac{298}{158} > \frac{1.886}{1.886}$
	13.39% -> 298 158
13)	$\frac{254}{104} < \frac{2.442}{2.442}$
	83.72% -< 254 104
14)	$\frac{233}{139} < \frac{1.676}{1.676}$
	30.90% -< 233 139
15)	$\frac{103}{273} < \frac{0.377}{0.377}$
	48.20% -< 103 273
	37.86% -< 103 273
	21.98% -< 0.377

1)

138	202	260	284
133	145	227	215
<hr/>			
_____ > _____ > _____ > _____			

6)

152		43
203		54
<hr/>		

2)

71	171	121	229
71	213	111	254
<hr/>			
_____ > _____ > _____ > _____			

8)

310		214
340		209
<hr/>		

3)

339	254	340	275
244	198	310	230
<hr/>			
_____ > _____ > _____ > _____			

10)

61		221
101		319
<hr/>		

4)

187	137	851	406
115	92	600	301
<hr/>			
_____ > _____ > _____ > _____			

12)

150		168
338		341
<hr/>		

5)

663	740	826	643
455	347	433	386
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added to the time taken to solve problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
202	>	284	>	260	>	138
145		215		227		133
1.393		1.321		1.145		1.038

2)						
121	>	71	>	229	>	171
111		71		254		213
1.090		1.000		0.902		0.803

3)						
339	>	254	>	275	>	340
244		198		230		310
1.389		1.283		1.196		1.097

4)						
187	>	137	>	851	>	406
115		92		600		301
1.626		1.489		1.418		1.349

5)						
740	>	826	>	643	>	663
347		433		386		455
2.133		1.908		1.666		1.457

6)	152	253.49%	43
	203	<-	54
	0.749	275.93%	0.796
7)	268	7.46%	288
	196	->	232
	1.367	18.37%	1.241
8)	310	44.86%	214
	340	<-	209
	0.912	62.68%	1.024
9)	156	60.26%	250
	219	->	338
	0.712	54.34%	0.740
10)	61	262.30%	221
	101	->	319
	0.604	215.84%	0.693
11)	219	231.82%	66
	251	<-	70
	0.873	258.57%	0.943
12)	150	12.00%	168
	338	->	341
	0.444	0.89%	0.493
13)	36	608.33%	255
	23	->	152
	1.565	560.87%	1.678
14)	283	135.83%	120
	132	->	62
	2.144	112.90%	1.935
15)	133	50.38%	200
	80	->	137
	1.663	71.25%	1.460

1)

206	110	245	264
122	83	162	214
<hr/>			
_____ > _____ > _____ > _____			

6)

278		287
306		325
<hr/>		

2)

186	227	281	115
160	207	327	121
<hr/>			
_____ > _____ > _____ > _____			

8)

169		333
73		151
<hr/>		

3)

232	148	113	194
326	188	177	332
<hr/>			
_____ > _____ > _____ > _____			

10)

88		116
245		323
<hr/>		

4)

799	476	947	361
914	515	917	436
<hr/>			
_____ > _____ > _____ > _____			

12)

221		309
222		286
<hr/>		

5)

625	328	473	857
705	321	555	725
<hr/>			
_____ > _____ > _____ > _____			

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{206}{122} > \frac{245}{162} > \frac{110}{83} > \frac{264}{214}$	1.689	1.512	1.325	1.234
----	--	-------	-------	-------	-------

2)	$\frac{186}{160} > \frac{227}{207} > \frac{115}{121} > \frac{281}{327}$	1.163	1.097	0.950	0.859
----	---	-------	-------	-------	-------

3)	$\frac{148}{188} > \frac{232}{326} > \frac{113}{177} > \frac{194}{332}$	0.787	0.712	0.638	0.584
----	---	-------	-------	-------	-------

4)	$\frac{947}{917} > \frac{476}{515} > \frac{799}{914} > \frac{361}{436}$	1.033	0.924	0.874	0.828
----	---	-------	-------	-------	-------

5)	$\frac{857}{725} > \frac{328}{321} > \frac{625}{705} > \frac{473}{555}$	1.182	1.022	0.887	0.852
----	---	-------	-------	-------	-------

6)	$\frac{278}{306} > \frac{287}{325}$	0.908	3.24%	->	287
		0.908	6.21%	->	325
7)	$\frac{159}{225} < \frac{95}{124}$	0.707	67.37%	<-	95
		0.707	81.45%	<-	124
8)	$\frac{169}{73} > \frac{333}{151}$	2.315	97.04%	->	333
		2.315	106.85%	->	151
9)	$\frac{98}{148} > \frac{192}{322}$	0.662	95.92%	->	192
		0.662	117.57%	->	322
10)	$\frac{88}{245} > \frac{116}{323}$	0.359	31.82%	->	116
		0.359	31.84%	->	323
11)	$\frac{26}{62} > \frac{29}{78}$	0.419	11.54%	->	29
		0.419	25.81%	->	78
12)	$\frac{221}{222} > \frac{309}{286}$	0.995	39.82%	->	309
		0.995	28.83%	->	286
13)	$\frac{132}{103} > \frac{238}{199}$	1.282	80.30%	->	238
		1.282	93.20%	->	199
14)	$\frac{131}{184} > \frac{177}{257}$	0.712	35.11%	->	177
		0.712	39.67%	->	257
15)	$\frac{255}{211} > \frac{322}{230}$	1.209	26.27%	->	322
		1.209	9.00%	->	230

1)

227	200	170	299
200	253	172	327
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

236	_____	335
69	_____	89
<hr/>		

7)

204	_____	67
301	_____	109
<hr/>		

2)

190	148	192	277
125	77	114	153
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

155	_____	175
247	_____	287
<hr/>		

9)

119	_____	30
338	_____	82
<hr/>		

3)

100	171	278	227
118	166	299	287
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

130	_____	169
117	_____	157
<hr/>		

11)

58	_____	67
257	_____	258
<hr/>		

4)

222	516	804	566
164	356	479	435
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

12)

65	_____	50
305	_____	265
<hr/>		

5)

833	731	754	59
862	702	639	53
<hr/>			
_____	_____	_____	_____

_____ > _____ > _____ > _____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)			
$\frac{227}{200} > \frac{170}{172} > \frac{299}{327} > \frac{200}{253}$			
1.135	0.988	0.914	0.791

2)			
$\frac{148}{77} > \frac{277}{153} > \frac{192}{114} > \frac{190}{125}$			
1.922	1.810	1.684	1.520

3)			
$\frac{171}{166} > \frac{278}{299} > \frac{100}{118} > \frac{227}{287}$			
1.030	0.930	0.847	0.791

4)			
$\frac{804}{479} > \frac{516}{356} > \frac{222}{164} > \frac{566}{435}$			
1.678	1.449	1.354	1.301

5)			
$\frac{754}{639} > \frac{59}{53} > \frac{731}{702} > \frac{833}{862}$			
1.180	1.113	1.041	0.966

6)	$\frac{236}{69}$	41.95% ->	335 89 3.764
	3.420	28.99%	
7)	$\frac{204}{301}$	204.48% <- <-	67 109 0.615
	0.678	176.15%	
8)	$\frac{155}{247}$	12.90% -> ->	175 287 0.610
	0.628	16.19%	
9)	$\frac{119}{338}$	296.67% <- <-	30 82 0.366
	0.352	312.20%	
10)	$\frac{130}{117}$	30.00% -> ->	169 157 1.076
	1.111	34.19%	
11)	$\frac{58}{257}$	15.52% -> ->	67 258 0.260
	0.226	0.39%	
12)	$\frac{65}{305}$	30.00% <- <-	50 265 0.189
	0.213	15.09%	
13)	$\frac{233}{213}$	38.69% <- <-	168 135 1.244
	1.094	57.78%	
14)	$\frac{186}{303}$	31.91% <- <-	141 235 0.600
	0.614	28.94%	
15)	$\frac{314}{265}$	53.17% <- <-	205 188 1.090
	1.185	40.96%	

1)

73	69	258	171
119	101	338	265
<hr/>			
_____ > _____ > _____ > _____			

6)

247		255
275		299
<hr/>		

2)

85	66	47	110
206	134	104	202
<hr/>			
_____ > _____ > _____ > _____			

8)

153		179
234		290
<hr/>		

3)

168	205	217	282
198	203	291	319
<hr/>			
_____ > _____ > _____ > _____			

9)

168		98
239		152
<hr/>		

4)

289	789	849	538
245	826	807	490
<hr/>			
_____ > _____ > _____ > _____			

10)

120		224
165		311
<hr/>		

5)

984	495	649	955
655	393	461	610
<hr/>			
_____ > _____ > _____ > _____			

11)

250		317
190		270
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)						
258	>	69	>	171	>	73
338		101		265		119
0.763		0.683		0.645		0.613

2)						
110	>	66	>	47	>	85
202		134		104		206
0.545		0.493		0.452		0.413

3)						
205	>	282	>	168	>	217
203		319		198		291
1.010		0.884		0.848		0.746

4)						
289	>	538	>	849	>	789
245		490		807		826
1.180		1.098		1.052		0.955

5)						
955	>	984	>	649	>	495
610		655		461		393
1.566		1.502		1.408		1.260

6)	247	3.24%	255
	275	->	299
	0.898	8.73%	0.853
7)	267	38.34%	193
	254	<-	189
	1.051	34.39%	1.021
8)	153	16.99%	179
	234	->	290
	0.654	23.93%	0.617
9)	168	71.43%	98
	239	<-	152
	0.703	57.24%	0.645
10)	120	86.67%	224
	165	->	311
	0.727	88.48%	0.720
11)	250	26.80%	317
	190	->	270
	1.316	42.11%	1.174
12)	245	18.93%	206
	342	<-	323
	0.716	5.88%	0.638
13)	241	37.76%	332
	229	->	333
	1.052	45.41%	0.997
14)	73	121.92%	162
	66	->	157
	1.106	137.88%	1.032
15)	136	106.06%	66
	306	<-	149
	0.444	105.37%	0.443

1)

318	154	259	279
251	153	277	252
<hr/>			
_____ > _____ > _____ > _____			

6)

166		279
164		278
<hr/>		

2)

318	301	213	235
226	164	132	157
<hr/>			
_____ > _____ > _____ > _____			

8)

333		81
84		22
<hr/>		

3)

218	142	315	136
244	170	334	136
<hr/>			
_____ > _____ > _____ > _____			

10)

263		139
194		99
<hr/>		

4)

351	209	215	434
579	316	291	812
<hr/>			
_____ > _____ > _____ > _____			

11)

57		165
124		329
<hr/>		

5)

836	436	691	519
639	391	718	415
<hr/>			
_____ > _____ > _____ > _____			

13)

225		205
254		251
<hr/>		

14)

49		100
119		266
<hr/>		

15)

148		212
216		299
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)						
318	>	279	>	154	>	259
251		252		153		277
1.267		1.107		1.007		0.935

2)						
301	>	213	>	235	>	318
164		132		157		226
1.835		1.614		1.497		1.407

3)						
136	>	315	>	218	>	142
136		334		244		170
1.000		0.943		0.893		0.835

4)						
215	>	209	>	351	>	434
291		316		579		812
0.739		0.661		0.606		0.534

5)						
836	>	519	>	436	>	691
639		415		391		718
1.308		1.251		1.115		0.962

6)	166	68.07%	279
	164	->	278
	1.012	69.51%	1.004
7)	81	186.42%	232
	105	->	261
	0.771	148.57%	0.889
8)	333	311.11%	81
	84	-<	22
	3.964	281.82%	3.682
9)	145	150.00%	58
	301	-<	121
	0.482	148.76%	0.479
10)	263	89.21%	139
	194	-<	99
	1.356	95.96%	1.404
11)	57	189.47%	165
	124	->	329
	0.460	165.32%	0.502
12)	82	307.32%	334
	59	->	231
	1.390	291.53%	1.446
13)	225	9.76%	205
	254	-<	251
	0.886	1.20%	0.817
14)	49	104.08%	100
	119	->	266
	0.412	123.53%	0.376
15)	148	43.24%	212
	216	->	299
	0.685	38.43%	0.709

1)

150	108	247	319
116	107	226	264
<hr/>			
_____	_____	_____	_____
<hr/>			

6)

216	_____	105
312		161
<hr/>		

2)

236	110	256	329
263	103	211	341
<hr/>			
_____	_____	_____	_____
<hr/>			

7)

29	_____	138
31		153
<hr/>		

8)

118	_____	253
157		335
<hr/>		

3)

54	57	89	270
46	43	82	183
<hr/>			
_____	_____	_____	_____
<hr/>			

9)

274	_____	322
216		224
<hr/>		

10)

145	_____	316
78		165
<hr/>		

4)

929	768	104	696
403	280	42	240
<hr/>			
_____	_____	_____	_____
<hr/>			

11)

126	_____	151
92		117
<hr/>		

12)

134	_____	238
149		246
<hr/>		

5)

913	540	243	835
959	598	307	991
<hr/>			
_____	_____	_____	_____
<hr/>			

13)

68	_____	169
149		330
<hr/>		

14)

58	_____	248
39		180
<hr/>		

15)

182	_____	52
220		64
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{150}{116} > \frac{319}{264} > \frac{247}{226} > \frac{108}{107}$
1.293	1.208
1.093	1.009

2)	$\frac{256}{211} > \frac{110}{103} > \frac{329}{341} > \frac{236}{263}$
1.213	1.068
0.965	0.897

3)	$\frac{270}{183} > \frac{57}{43} > \frac{54}{46} > \frac{89}{82}$
1.475	1.326
1.174	1.085

4)	$\frac{696}{240} > \frac{768}{280} > \frac{104}{42} > \frac{929}{403}$
2.900	2.743
2.476	2.305

5)	$\frac{913}{959} > \frac{540}{598} > \frac{835}{991} > \frac{243}{307}$
0.952	0.903
0.843	0.792

6)	$\frac{216}{312} < \frac{312}{0.692} < \frac{0.692}{0.9379} = 105.71\%$
105	161
0.652	0.902
138	153
0.902	114.41%
253	335
0.755	17.52%
322	224
1.438	3.70%
316	165
1.915	111.93%
151	117
1.291	19.84%
238	246
0.967	27.17%
169	330
0.512	77.61%
248	180
1.378	148.53%
180	121.48%
0.512	327.59%
52	250.00%
64	361.54%
0.813	243.75%

1)

66	150	143	62	
96	<hr/>	<hr/>	<hr/>	
_____	>	_____	>	_____

6)

189	<hr/>	283		
211	<hr/>	<hr/>		
_____	>	_____	>	329

2)

185	172	235	239	
108	<hr/>	<hr/>	<hr/>	
_____	>	_____	>	_____

7)

184	<hr/>	156		
142	<hr/>	<hr/>		
_____	>	_____	>	132

3)

108	158	198	33	
170	<hr/>	<hr/>	<hr/>	
_____	>	_____	>	_____

10)

185	<hr/>	187		
262	<hr/>	<hr/>		
_____	>	_____	>	288

4)

884	645	485	697	
737	<hr/>	<hr/>	<hr/>	
_____	>	_____	>	_____

12)

99	<hr/>	149		
105	<hr/>	<hr/>		
_____	>	_____	>	177

5)

901	882	408	883	
424	<hr/>	<hr/>	<hr/>	
_____	>	_____	>	_____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{143}{175} > \frac{150}{200} > \frac{66}{96} > \frac{62}{103}$
	0.817 0.750 0.688 0.602

2)	$\frac{239}{127} > \frac{185}{108} > \frac{235}{147} > \frac{172}{124}$
	1.882 1.713 1.599 1.387

3)	$\frac{198}{292} > \frac{108}{170} > \frac{33}{58} > \frac{158}{317}$
	0.678 0.635 0.569 0.498

4)	$\frac{645}{484} > \frac{485}{379} > \frac{884}{737} > \frac{697}{667}$
	1.333 1.280 1.199 1.045

5)	$\frac{882}{388} > \frac{901}{424} > \frac{408}{215} > \frac{883}{530}$
	2.273 2.125 1.898 1.666

6)	$\frac{189}{211} > \frac{0.896}{0.860}$
	49.74% -> 283 329
7)	$\frac{184}{142} < \frac{1.296}{1.182}$
	55.92% -> 0.860 0.896
8)	$\frac{263}{230} < \frac{1.143}{1.055}$
	17.95% <- 156 132
9)	$\frac{97}{86} > \frac{1.128}{1.158}$
	52.91% <- 172 163
10)	$\frac{185}{262} > \frac{0.706}{0.649}$
	41.10% <- 186.60% 187
11)	$\frac{207}{327} < \frac{0.633}{0.715}$
	186.60% <- 288 278
12)	$\frac{99}{105} > \frac{0.943}{0.842}$
	1.08% <- 240 278
13)	$\frac{264}{208} < \frac{1.269}{1.257}$
	135.23% <- 123 88
14)	$\frac{127}{154} > \frac{0.825}{0.796}$
	50.51% <- 149 177
15)	$\frac{221}{120} > \frac{1.842}{1.821}$
	100.00% <- 105 132
	112.60% <- 339 270
	120.13% <- 0.796 0.825
	33.48% <- 162 295
	35.00% <- 1.821 1.842

1)

103	247	202	181
135	266	234	187
_____	_____	_____	_____

_____ > _____ > _____ > _____

6)

315		233
266		218
_____	_____	_____

2)

70	261	150	170
113	296	189	242
_____	_____	_____	_____

_____ > _____ > _____ > _____

8)

142		281
116		199
_____	_____	_____

3)

184	241	172	194
264	309	193	313
_____	_____	_____	_____

_____ > _____ > _____ > _____

9)

65		73
224		224
_____	_____	_____

4)

370	365	488	604
648	490	803	879
_____	_____	_____	_____

_____ > _____ > _____ > _____

10)

143		126
84		83
_____	_____	_____

5)

669	560	537	577
579	437	485	432
_____	_____	_____	_____

_____ > _____ > _____ > _____

11)

226		71
108		34
_____	_____	_____

12)

275		118
262		111
_____	_____	_____

13)

304		216
92		57
_____	_____	_____

14)

63		164
143		325
_____	_____	_____

15)

173		214
205		221
_____	_____	_____

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)	$\frac{181}{187} > \frac{247}{266} > \frac{202}{234} > \frac{103}{135}$
	0.968 0.929 0.863 0.763

2)	$\frac{261}{296} > \frac{150}{189} > \frac{170}{242} > \frac{70}{113}$
	0.882 0.794 0.702 0.619

3)	$\frac{172}{193} > \frac{241}{309} > \frac{184}{264} > \frac{194}{313}$
	0.891 0.780 0.697 0.620

4)	$\frac{365}{490} > \frac{604}{879} > \frac{488}{803} > \frac{370}{648}$
	0.745 0.687 0.608 0.571

5)	$\frac{577}{432} > \frac{560}{437} > \frac{669}{579} > \frac{537}{485}$
	1.336 1.281 1.155 1.107

6)	$\frac{315}{266} < \frac{233}{218}$
	1.184 22.02%
7)	$\frac{30}{29} > \frac{310}{305}$
	1.034 951.72%
8)	$\frac{142}{116} > \frac{281}{199}$
	1.224 71.55%
9)	$\frac{65}{224} < \frac{73}{224}$
	0.290 0.00%
10)	$\frac{143}{84} > \frac{126}{83}$
	1.702 1.20%
11)	$\frac{226}{108} > \frac{71}{34}$
	2.093 217.65%
12)	$\frac{275}{262} < \frac{118}{111}$
	1.050 136.04%
13)	$\frac{304}{92} < \frac{216}{57}$
	3.304 61.40%
14)	$\frac{63}{143} > \frac{164}{325}$
	0.441 127.27%
15)	$\frac{173}{205} > \frac{214}{221}$
	0.844 7.80%

1)

63	251	161	144
41	170	94	88
<hr/>			
_____ > _____ > _____ > _____			

6)

95	_____	83
288	_____	254
<hr/>		

2)

56	110	246	84
48	117	226	93
<hr/>			
_____ > _____ > _____ > _____			

8)

130	_____	273
163	_____	332
<hr/>		

3)

187	153	256	298
185	169	236	254
<hr/>			
_____ > _____ > _____ > _____			

9)

279	_____	103
300	_____	112
<hr/>		

4)

420	293	581	719
481	315	705	944
<hr/>			
_____ > _____ > _____ > _____			

10)

303	_____	149
285	_____	138
<hr/>		

5)

148	927	368	953
124	719	326	971
<hr/>			
_____ > _____ > _____ > _____			

11)

142	_____	182
91	_____	107
<hr/>		

12)

71	_____	111
168	_____	254
<hr/>		

13)

75	_____	288
90	_____	306
<hr/>		

14)

117	_____	57
316	_____	159
<hr/>		

15)

195	_____	310
184	_____	329
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{161}{94} > \frac{144}{88} > \frac{63}{41} > \frac{251}{170}$	1.713	1.636	1.537	1.476
----	---	-------	-------	-------	-------

2)	$\frac{56}{48} > \frac{246}{226} > \frac{110}{117} > \frac{84}{93}$	1.167	1.088	0.940	0.903
----	---	-------	-------	-------	-------

3)	$\frac{298}{254} > \frac{256}{236} > \frac{187}{185} > \frac{153}{169}$	1.173	1.085	1.011	0.905
----	---	-------	-------	-------	-------

4)	$\frac{293}{315} > \frac{420}{481} > \frac{581}{705} > \frac{719}{944}$	0.930	0.873	0.824	0.762
----	---	-------	-------	-------	-------

5)	$\frac{927}{719} > \frac{148}{124} > \frac{368}{326} > \frac{953}{971}$	1.289	1.194	1.129	0.981
----	---	-------	-------	-------	-------

6)	$\frac{95}{288} < \frac{0.330}{0.327}$	14.46%	<-	83
7)	$\frac{146}{268} < \frac{0.545}{0.627}$	13.39%	<-	254
8)	$\frac{130}{163} > \frac{0.798}{0.822}$	84.81%	<-	79
9)	$\frac{279}{300} < \frac{0.930}{0.920}$	112.70%	>-	126
10)	$\frac{303}{285} > \frac{1.063}{1.080}$	110.00%	>-	273
11)	$\frac{142}{91} > \frac{1.560}{1.701}$	103.68%	<-	103
12)	$\frac{71}{168} > \frac{0.423}{0.437}$	170.87%	<-	112
13)	$\frac{75}{90} > \frac{0.833}{0.941}$	103.36%	>-	149
14)	$\frac{117}{316} < \frac{0.370}{0.358}$	28.17%	>-	182
15)	$\frac{195}{184} > \frac{1.060}{0.942}$	56.34%	>-	107
		284.00%	>-	111
		240.00%	>-	254
		105.26%	<-	288
		98.74%	<-	306
		58.97%	>-	0.941
		58.97%	>-	57
		284.00%	>-	159
		240.00%	>-	310
		105.26%	<-	329
		98.74%	<-	0.942

1)

92	215	30	261
109	240	40	323
<hr/>			

_____ > _____ > _____ > _____

2)

267	273	238	258
281	339	229	306
<hr/>			

_____ > _____ > _____ > _____

3)

174	245	268	110
175	294	291	140
<hr/>			

_____ > _____ > _____ > _____

4)

256	503	852	492
240	491	708	547
<hr/>			

_____ > _____ > _____ > _____

5)

592	324	111	611
920	387	150	897
<hr/>			

_____ > _____ > _____ > _____

6)

119	_____	138
223	_____	223
<hr/>		

7)

300	_____	313
157	_____	180
<hr/>		

8)

234	_____	265
70	_____	86
<hr/>		

9)

312	_____	244
207	_____	144
<hr/>		

10)

306	_____	181
198	_____	101
<hr/>		

11)

84	_____	194
113	_____	286
<hr/>		

12)

203	_____	223
221	_____	226
<hr/>		

13)

173	_____	287
62	_____	112
<hr/>		

14)

270	_____	67
188	_____	45
<hr/>		

15)

248	_____	167
246	_____	173
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00"	: Acceptable
5'00"~5'30"	: Average
4'30"~5'00"	: good
4'00"~4'30"	: Excellent
~4'00"	: Superior

1)	$\frac{215}{240} > \frac{92}{109} > \frac{261}{323} > \frac{30}{40}$
	0.896 0.844 0.808 0.750

2)	$\frac{238}{229} > \frac{267}{281} > \frac{258}{306} > \frac{273}{339}$
	1.039 0.950 0.843 0.805

3)	$\frac{174}{175} > \frac{268}{291} > \frac{245}{294} > \frac{110}{140}$
	0.994 0.921 0.833 0.786

4)	$\frac{852}{708} > \frac{256}{240} > \frac{503}{491} > \frac{492}{547}$
	1.203 1.067 1.024 0.899

5)	$\frac{324}{387} > \frac{111}{150} > \frac{611}{897} > \frac{592}{920}$
	0.837 0.740 0.681 0.643

6)	$\frac{119}{223}$	15.97% -> 138
	0.534	0.00% -> 223
7)	$\frac{300}{157}$	4.33% -> 313
	1.911	14.65% -> 180
8)	$\frac{234}{70}$	13.25% -> 265
	3.343	22.86% -> 86
9)	$\frac{312}{207}$	27.87% <- 244
	1.507	43.75% <- 144
10)	$\frac{306}{198}$	69.06% <- 181
	1.545	96.04% <- 101
11)	$\frac{84}{113}$	130.95% -> 194
	0.743	153.10% -> 286
12)	$\frac{203}{221}$	9.85% -> 223
	0.919	2.26% -> 226
13)	$\frac{173}{62}$	65.90% -> 287
	2.790	80.65% -> 112
14)	$\frac{270}{188}$	302.99% <- 2.563
	1.436	317.78% <- 67
15)	$\frac{248}{246}$	48.50% <- 45
	1.008	42.20% <- 1.489
		$\frac{167}{173}$ 0.965

1)

172	245	91	256
275	309	131	293
<hr/>			

_____ > _____ > _____ > _____

6)

296		202
321		207
<hr/>		

2)

231	116	292	303
180	108	238	211
<hr/>			

_____ > _____ > _____ > _____

8)

303		259
329		291
<hr/>		

3)

304	197	55	283
287	199	49	241
<hr/>			

_____ > _____ > _____ > _____

10)

266		261
328		284
<hr/>		

4)

440	389	204	512
704	832	418	933
<hr/>			

_____ > _____ > _____ > _____

12)

305		119
294		115
<hr/>		

5)

633	956	719	478
650	885	807	609
<hr/>			

_____ > _____ > _____ > _____

13)

18		96
62		337
<hr/>		

14)

289		149
201		98
<hr/>		

15)

56		50
193		189
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~ : Need Work

5'30"~6'00" : Acceptable

5'00"~5'30" : Average

4'30"~5'00" : good

4'00"~4'30" : Excellent

~4'00" : Superior

1)						
256	>	245	>	91	>	172
293		309		131		275
0.874		0.793		0.695		0.625

2)						
303	>	231	>	292	>	116
211		180		238		108
1.436		1.283		1.227		1.074

3)						
283	>	55	>	304	>	197
241		49		287		199
1.174		1.122		1.059		0.990

4)						
440	>	512	>	204	>	389
704		933		418		832
0.625		0.549		0.488		0.468

5)						
956	>	633	>	719	>	478
885		650		807		609
1.080		0.974		0.891		0.785

6)	296	46.53%	202
	321	<-	207
	0.922	55.07%	0.976
7)	302	34.82%	224
	294	<-	231
	1.027	27.27%	0.970
8)	303	16.99%	259
	329	<-	291
	0.921	13.06%	0.890
9)	309	36.73%	226
	311	<-	229
	0.994	35.81%	0.987
10)	266	1.92%	261
	328	<-	284
	0.811	15.49%	0.919
11)	208	15.87%	241
	127	->	135
	1.638	6.30%	1.785
12)	305	156.30%	119
	294	<-	115
	1.037	155.65%	1.035
13)	18	433.33%	337
	62	<-	96
	0.290	443.55%	0.285
14)	289	93.96%	149
	201	<-	98
	1.438	105.10%	1.520
15)	56	12.00%	50
	193	<-	189
	0.290	2.12%	0.265

1)

214	269	274	75
201	291	324	96
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____ > _____ > _____ > _____			

6)

125		24
212		44
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

2)

341	305	293	163
226	178	225	131
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____ > _____ > _____ > _____			

8)

166		138
299		250
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

3)

319	229	34	304
272	224	35	326
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____ > _____ > _____ > _____			

9)

269		324
196		218
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

4)

986	830	567	994
925	893	413	806
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____ > _____ > _____ > _____			

10)

323		263
250		188
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

5)

497	774	571	674
514	977	625	815
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____ > _____ > _____ > _____			

11)

290		146
250		142
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

12)

114		298
100		239
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

13)

281		172
286		159
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

14)

229		299
218		262
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

15)

76		147
126		250
<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/> _____		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)	$\frac{214}{201} > \frac{269}{291} > \frac{274}{324} > \frac{75}{96}$
	1.065 0.924 0.846 0.781

2)	$\frac{305}{178} > \frac{341}{226} > \frac{293}{225} > \frac{163}{131}$
	1.713 1.509 1.302 1.244

3)	$\frac{319}{272} > \frac{229}{224} > \frac{34}{35} > \frac{304}{326}$
	1.173 1.022 0.971 0.933

4)	$\frac{567}{413} > \frac{994}{806} > \frac{986}{925} > \frac{830}{893}$
	1.373 1.233 1.066 0.929

5)	$\frac{497}{514} > \frac{571}{625} > \frac{674}{815} > \frac{774}{977}$
	0.967 0.914 0.827 0.792

6)	$\frac{125}{212} < \frac{24}{44}$
	0.590 0.545
7)	$\frac{165}{101} > \frac{334}{191}$
	1.634 1.749
8)	$\frac{166}{299} < \frac{138}{250}$
	0.555 0.552
9)	$\frac{269}{196} > \frac{324}{218}$
	1.372 1.486
10)	$\frac{323}{250} < \frac{263}{188}$
	1.292 1.399
11)	$\frac{290}{250} < \frac{146}{142}$
	1.160 1.028
12)	$\frac{114}{100} > \frac{298}{239}$
	1.140 1.247
13)	$\frac{281}{286} < \frac{172}{159}$
	0.983 1.082
14)	$\frac{229}{218} > \frac{299}{262}$
	1.050 1.141
15)	$\frac{76}{126} > \frac{147}{250}$
	0.603 0.588

1)

148	191	247	249
147	246	224	283
<hr/>			
_____ > _____ > _____ > _____			

6)

154		303
108		230
<hr/>		

2)

191	125	204	149
287	213	278	236
<hr/>			
_____ > _____ > _____ > _____			

8)

163		162
257		228
<hr/>		

3)

299	218	104	182
331	258	144	240
<hr/>			
_____ > _____ > _____ > _____			

10)

158		229
142		193
<hr/>		

4)

621	833	482	254
565	656	581	268
<hr/>			
_____ > _____ > _____ > _____			

11)

191		158
340		253
<hr/>		

5)

358	583	403	301
505	714	526	487
<hr/>			
_____ > _____ > _____ > _____			

13)

148		256
84		138
<hr/>		

14)

44		181
72		280
<hr/>		

15)

246		164
299		178
<hr/>		

For each incorrect answer,
15" is added
to the time
taken to solve
problems

6'00"~	: Need Work
5'30"~6'00" : Acceptable	
5'00"~5'30" : Average	
4'30"~5'00" : good	
4'00"~4'30" : Excellent	
~4'00" : Superior	

1)			
$\frac{247}{224} > \frac{148}{147} > \frac{249}{283} > \frac{191}{246}$			
1.103	1.007	0.880	0.776

2)			
$\frac{204}{278} > \frac{191}{287} > \frac{149}{236} > \frac{125}{213}$			
0.734	0.666	0.631	0.587

3)			
$\frac{299}{331} > \frac{218}{258} > \frac{182}{240} > \frac{104}{144}$			
0.903	0.845	0.758	0.722

4)			
$\frac{833}{656} > \frac{621}{565} > \frac{254}{268} > \frac{482}{581}$			
1.270	1.099	0.948	0.830

5)			
$\frac{583}{714} > \frac{403}{526} > \frac{358}{505} > \frac{301}{487}$			
0.817	0.766	0.709	0.618

6)	154	96.75%	303
	108	->	230
	1.426	112.96%	1.317
7)	273	22.42%	223
	179	<-	150
	1.525	19.33%	1.487
8)	163	0.62%	162
	257	<-	228
	0.634	12.72%	0.711
9)	231	99.14%	116
	51	<-	26
	4.529	96.15%	4.462
10)	158	44.94%	229
	142	->	193
	1.113	35.92%	1.187
11)	191	20.89%	158
	340	<-	253
	0.562	34.39%	0.625
12)	98	24.05%	79
	215	<-	191
	0.456	12.57%	0.414
13)	148	72.97%	256
	84	->	138
	1.762	64.29%	1.855
14)	44	311.36%	181
	72	->	280
	0.611	288.89%	0.646
15)	246	50.00%	164
	299	<-	178
	0.823	67.98%	0.921