

# Table of Item Difficulty for the 2009 MAA - American Mathematics Contest 8

Tabulation of responses by 151367 Students  
Percent of Responses

ITEM	A	B	C	D	E	OMITS	?
1	0.15	0.24	2.64	2.03	<b>94.76*</b>	0.18	0.01
2	2.58	3.33	3.47	<b>87.50*</b>	2.59	0.51	0.01
3	11.82	2.73	<b>82.13*</b>	1.57	1.45	0.27	0.02
4	9.07	<b>68.31*</b>	2.54	9.96	9.37	0.69	0.05
5	5.64	14.17	16.12	<b>58.18*</b>	4.09	1.78	0.04
6	<b>68.34*</b>	8.54	7.78	5.39	8.48	1.42	0.04
7	2.52	8.8	<b>39.33*</b>	19.54	27.33	2.4	0.08
8	26.99	<b>27.22*</b>	35.27	3.88	5.34	1.25	0.05
9	14.73	<b>37.82*</b>	17.98	18.16	8	3.25	0.06
10	3.62	25.94	13.68	<b>47.92*</b>	7.57	1.23	0.04
11	6.16	15.46	23.64	<b>33.21*</b>	16.56	4.91	0.06
12	18	24.77	5.42	<b>43.10*</b>	7.07	1.56	0.07
13	6.97	<b>74.82*</b>	5.43	8.2	2.84	1.68	0.06
14	5.47	<b>12.89*</b>	70.17	5.19	3.46	2.77	0.05
15	15.75	13.22	16.26	<b>32.38*</b>	17.79	4.5	0.1
16	32.06	15.96	18.65	<b>14.57*</b>	13.69	4.98	0.08
17	15.54	<b>23.75*</b>	22.79	18.32	11.52	8	0.09
18	21.62	11.02	<b>39.88*</b>	12.41	9.32	5.62	0.12
19	12.01	15.27	18.58	<b>22.96*</b>	23.54	7.39	0.25
20	18.74	29.19	13	<b>18.86*</b>	12.33	7.77	0.1
21	14.63	36.64	17.27	<b>14.00*</b>	6.73	10.6	0.12
22	11.19	13.87	18.83	<b>22.52*</b>	23.59	9.77	0.24
23	11.98	<b>27.59*</b>	17.23	20.96	10.31	11.75	0.17
24	16.72	18.58	20.92	15.5	<b>15.41*</b>	12.73	0.14
25	13.12	16.39	19.02	16.4	<b>20.24*</b>	14.72	0.11

(\*) Correct Response

(?) Response the computer was unable to read due to incomplete erasures or two answers marked for the same problem