



# Michigan Mathematics Prize Competition



## Item Analysis for the Forty-Fourth Michigan Mathematics Prize Competition Part I, October 11, 2000

problem number	correct answer	percent A	percent B	percent C	percent D	percent E	percent other
1	A	<b>41.9</b>	54.0	0.9	0.9	2.2	0.1
2	B	3.0	<b>39.5</b>	6.8	26.1	23.0	1.6
3	B	16.7	<b>30.0</b>	7.4	40.2	5.4	0.3
4	A	<b>45.2</b>	21.8	22.2	3.8	4.8	2.2
5	A	<b>47.8</b>	5.6	15.8	6.9	23.3	0.6
6	B	6.1	<b>47.1</b>	24.6	5.1	16.8	0.3
7	E	20.7	23.3	13.5	14.5	<b>26.7</b>	1.3
8	D	4.5	11.3	13.2	<b>26.9</b>	43.3	0.8
9	A	<b>34.9</b>	14.8	14.2	7.8	27.2	1.2
10	E	12.0	17.4	22.5	17.2	<b>28.9</b>	2.0
11	A	<b>30.6</b>	20.9	12.6	16.0	19.0	0.9
12	C	9.0	17.1	<b>35.1</b>	10.0	27.6	1.2
13	C	14.7	25.6	<b>16.3</b>	24.5	16.7	2.3
14	B	18.4	<b>32.0</b>	18.0	17.5	13.1	1.1
15	D	19.2	12.2	15.7	<b>41.3</b>	10.7	1.0
16	A	<b>42.8</b>	15.0	11.5	5.9	23.8	1.1
17	D	25.4	18.4	9.8	<b>38.1</b>	7.6	0.7
18	A	<b>24.5</b>	9.6	26.7	4.3	34.1	0.8
19	D	16.9	13.4	23.9	<b>23.2</b>	21.1	1.5
20	B	12.6	<b>47.6</b>	17.6	8.8	12.3	1.1
21	C	15.3	13.4	<b>25.6</b>	6.8	37.8	1.1
22	B	12.7	<b>25.0</b>	23.3	16.1	21.7	1.2
23	D	14.0	27.2	18.6	<b>25.8</b>	12.3	2.0
24	D	10.7	20.6	26.4	<b>24.5</b>	16.5	1.4
25	D	8.9	13.0	12.8	<b>46.0</b>	18.1	1.2
26	B	43.5	<b>20.9</b>	9.6	11.6	13.2	1.2
27	C	23.8	36.7	<b>17.6</b>	14.4	6.0	1.6
28	E	3.3	9.6	17.7	5.3	<b>63.0</b>	1.1
29	C	15.6	22.4	<b>33.3</b>	13.9	13.1	1.7
30	B	22.7	<b>29.2</b>	15.8	15.6	15.2	1.5
31	E	22.1	11.6	35.6	15.3	<b>14.4</b>	1.1
32	D	8.0	13.7	16.3	<b>56.7</b>	4.0	1.4
33	E	10.1	26.4	28.5	9.4	<b>23.8</b>	1.8
34	B	11.7	<b>31.0</b>	16.8	18.9	20.0	1.6
35	B	13.4	<b>24.7</b>	22.4	26.4	10.6	2.6
36	C	13.4	14.3	<b>24.7</b>	24.8	21.1	1.7

37	D	14.6	16.0	22.4	<b>33.0</b>	11.9	2.0
38	E	10.3	6.2	37.9	17.2	<b>26.9</b>	1.5
39	E	15.9	18.7	25.1	14.5	<b>23.4</b>	2.4
40	D	34.0	8.0	12.3	<b>12.4</b>	31.9	1.5

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Modified November 15, 2000, by [Robert Messer](#)