

Mathematical Association of America - American Mathematics Competitions
2007 AMC 12A/B ITEM DIFFICULTY

(*) Correct Response
 (?) Response the computer was unable to read

2007 AMC 12A Results - Item Difficulty							
Percent of Responses - 93,179 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.33	1.45	95.55 *	1.69	0.58	0.39	0.01
2	2.96	2.65	2.28	75.9 *	3.26	12.93	0.02
3	89.23 *	1.02	3.75	0.86	0.91	4.21	0.02
4	75.41 *	1.86	12.43	2.63	3.6	4.04	0.03
5	0.5	1.33	14.74	76.88 *	0.73	5.81	0.02
6	7.61	3.09	4.49	68.37 *	2.43	13.98	0.03
7	30.42	1.13	32.31 *	0.57	8.52	26.98	0.06
8	2.76	4.5	43.69 *	14.03	13.76	21.23	0.03
9	4.89	40.13 *	2.63	2.53	14.83	34.95	0.03
10	32.11 *	8.9	3.44	5.3	3	47.22	0.02
11	10.33	4.86	6.23	25.54 *	1.36	51.66	0.02
12	6.24	5.16	19.08	7.19	15.23 *	47.07	0.03
13	7.28	41.11 *	15.32	8.35	4.72	23.18	0.04
14	5.95	18.86	29.52 *	3.16	2.12	40.37	0.03
15	10.97	4.99	14.77	5.26	31.3 *	32.67	0.04
16	11.7	5.22	9.17 *	8.52	3.52	61.85	0.03
17	4.64	11.21 *	3.03	4.05	3.9	73.14	0.03
18	4.43	2.63	4.14	8.73 *	2.81	77.24	0.03
19	3.34	3.05	4.16	3.88	3.86 *	81.69	0.02
20	2	5.17 *	3.44	3.99	4.07	81.3	0.02
21	6.14 *	4.97	8.29	6.24	5.74	68.59	0.03
22	7.56	6.1	7.8	4.3 *	1.43	72.79	0.02
23	4.93 *	3.1	5.71	3.48	3.63	79.13	0.03
24	1.72	3.51	3.22	2.07 *	2.25	87.19	0.03
25	4.7	4.2	3.2	3.36	2.55 *	81.97	0.02

2007 AMC 12A, Item Difficulty - Male							
Percent of Responses - 49,883 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.29	1.23	96.5 *	1.29	0.47	0.27	0.01
2	2.29	2.17	1.67	82.6 *	2.58	8.73	0.02
3	91.9 *	0.79	3.04	0.7	0.68	2.89	0.02
4	82.9 *	1.73	8.23	1.6	2.89	2.57	0.03
5	0.37	1.07	12.3	81.6 *	0.56	4.08	0.04
6	7.32	2.93	4.24	71.6 *	2.25	11.6	0.04
7	27	1.09	38 *	0.58	8.53	24.71	0.07
8	2.33	4.41	47 *	13.5	14.6	18.13	0.03
9	4.61	47.3 *	2.47	2.49	15.7	27.36	0.04
10	37 *	8.03	3.55	5.76	2.58	43.09	0.03
11	10.8	4.71	6.11	29.3 *	1.47	47.58	0.03
12	6.85	5.55	18.8	8.15	19.2 *	41.4	0.04
13	6.38	49.2 *	13.1	7.16	3.82	20.37	0.05
14	6.07	19.9	34.5 *	2.98	1.97	34.6	0.05
15	9.45	4.56	16.5	5.35	35.6 *	28.45	0.05
16	12.6	5.53	10.3 *	8.9	3.6	59.01	0.04
17	4.41	12.9 *	3.19	4.26	3.66	71.56	0.03
18	4.13	2.72	4.38	10.6 *	2.83	75.3	0.03
19	3.51	3.13	4.21	3.77	3.99 *	81.36	0.04
20	2.17	6.13 *	3.68	3.95	3.84	80.19	0.03
21	7.03 *	4.61	7.98	5.7	5.84	68.81	0.03
22	7.63	7.05	8.6	4.67 *	1.35	70.68	0.03
23	5.39 *	3.05	5.79	3.54	3.33	78.86	0.03
24	1.82	3.9	3.37	2.28 *	2.71	85.87	0.04
25	4.58	4.2	3.25	3.42	2.86 *	81.68	0.02

2007 AMC 12A, Item Difficulty - Female							
Percent of Responses - 37,823 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.4	1.73	94.5 *	2.23	0.73	0.4	0.01
2	3.89	3.29	3.08	67.2 *	4.18	18.33	0.02
3	86.1 *	1.27	4.67	1.05	1.22	5.71	0.01
4	65.3 *	2.09	18.1	3.99	4.58	5.88	0.02
5	0.66	1.64	17.8	71 *	0.97	7.84	0
6	8	3.32	4.87	64 *	2.7	17.09	0.02
7	35.3	1.21	24.4 *	0.55	8.59	30	0.04
8	3.38	4.56	39.7 *	14.7	12.6	24.93	0.03
9	5.36	30.2 *	2.83	2.6	13.8	45.2	0.01
10	25.3 *	10.1	3.27	4.65	3.56	53.1	0.03
11	9.85	5.09	6.41	20.5 *	1.22	56.94	0.02
12	5.44	4.6	19.6	5.94	9.85 *	54.57	0.02
13	8.58	30.1 *	18.6	10	5.97	26.74	0.02
14	5.89	17.4	22.8 *	3.4	2.35	48.21	0.02
15	13.1	5.56	12.3	5.04	25.8 *	38.21	0.03
16	10.4	4.8	7.42 *	7.94	3.46	65.91	0.03
17	4.99	8.28 *	2.84	3.79	4.24	75.84	0.03
18	4.8	2.47	3.86	6.24 *	2.72	79.9	0.02
19	3.06	2.96	4.06	4.02	3.4 *	82.49	0.01
20	1.77	3.71 *	3.1	4.03	4.42	82.96	0.01
21	5.07 *	5.5	8.75	6.87	5.66	68.13	0.02
22	7.37	4.78	6.63	3.71 *	1.51	75.99	0.01
23	3.99 *	3.18	5.45	3.39	4.14	79.82	0.02
24	1.63	2.98	3.01	1.74 *	1.59	89.03	0.01
25	4.94	4.21	3.14	3.27	2.13 *	82.29	0.01

2007 AMC 12A, Item Difficulty - Unknown Gender							
Percent of Responses - 5,473 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.26	1.43	94.6 *	1.74	0.55	1.41	0
2	2.61	2.56	2.3	75.3 *	3.2	13.98	0.04
3	87 *	1.37	3.75	0.99	0.93	5.9	0.04
4	76.5 *	1.41	11.5	2.67	3.29	4.64	0.02
5	0.55	1.52	15.9	74 *	0.51	7.47	0.02
6	7.55	2.96	4.17	69 *	2.17	14.18	0.02
7	28.1	1.08	35.3 *	0.68	7.93	26.84	0.05
8	2.47	4.84	40.5 *	14.4	13.8	23.9	0.05
9	4.17	43.5 *	2.72	2.34	13.9	33.38	0.02
10	35.1 *	8.44	3.67	5.57	3.01	44.24	0
11	9.48	4.7	6.07	26 *	1.3	52.42	0.04
12	6.25	5.43	17.7	7.14	16.5 *	46.88	0.02
13	6.47	44.2 *	13.1	7.62	4.26	24.28	0.04
14	5.32	19.7	31.2 *	3.11	1.85	38.75	0.02
15	10.4	5.01	15.7	5.94	30 *	32.91	0
16	12.1	5.3	10.8 *	8.99	3.12	59.64	0.02
17	4.35	16.2 *	2.85	4	3.67	68.96	0.02
18	4.57	3	3.84	8.88 *	3.18	76.52	0.02
19	3.65	3.03	4.37	3.91	5.88 *	79.15	0
20	2.16	6.49 *	3.56	4.15	3.67	79.96	0.02
21	5.41 *	4.6	7.95	6.78	5.48	69.76	0.02
22	8.15	6.61	8.62	5.04 *	1.57	69.98	0.02
23	7.11 *	3.07	6.69	3.53	2.74	76.81	0.05
24	1.48	3.65	3.27	2.41 *	2.65	86.52	0.02
25	4.11	4.15	3.16	3.49	2.61 *	82.46	0.02

2007 AMC 12B Results - Item Difficulty							
Percent of Responses - 33,489 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.67	1.19	2.71	2.99	85.66 *	6.78	0.01
2	0.44	48.79 *	47.05	0.62	0.25	2.84	0.01
3	1.26	2.83	1.49	75.18 *	4.02	15.2	0.01
4	1.3	91.51 *	1.27	2.98	1.58	1.36	0
5	0.17	1.31	2.66	84.55 *	10.69	0.58	0.03
6	0.52	2.09	6.56	78.56 *	3.09	9.18	0.01
7	18.28	2.64	15.65	2.4	42.54 *	18.49	0
8	10.89	4.93	3.71	44.29 *	4.08	32.08	0.01
9	50.82 *	1.42	14.83	0.61	20.03	12.25	0.03
10	1.19	3.14	78.85 *	4.83	3.85	8.14	0
11	1.95	9.67	1.17	62.8 *	2.21	22.2	0
12	14.4	2.57	72.59 *	2.09	0.58	7.76	0.01
13	4.11	40.81	6.24	32.03 *	2.38	14.43	0.01
14	3.59	6.41	5.75	15.75 *	1.33	67.15	0.01
15	3.01	2.98	2.62	4.83	10.54 *	76	0.01
16	5.61 *	6.19	5.56	3.63	1.73	77.27	0.02
17	2.56	9.98	11.43	10.5 *	10.05	55.46	0.02
18	1.76	2.87	27.05 *	3.24	1.22	63.83	0.02
19	8.84 *	3.78	4.49	3.26	8.01	71.6	0.01
20	1.86	4.46	2.76	3.66 *	1.22	86.03	0.01
21	5.47 *	9.82	3.63	3.11	1.79	76.16	0.01
22	7.44 *	3.49	4.41	6.15	11.64	66.85	0.02
23	4.76 *	3.57	3.11	1.65	1.36	85.54	0.01
24	2.29 *	1.94	1.67	1.16	13.78	79.15	0.01
25	2.84	4.05	9.07 *	2.85	3.34	77.84	0.01

2007 AMC 12B Results, Item Difficulty - Male							
Percent of Responses - 18,105 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.5	0.86	2.06	2.71	89.4 *	4.5	0.01
2	0.33	56.6 *	40.5	0.56	0.18	1.82	0
3	1.25	2.6	1.45	78.2 *	3.56	12.96	0.01
4	0.99	93.7 *	0.9	2.26	1.36	0.81	0
5	0.13	1.4	2.24	88.6 *	7.21	0.4	0.03
6	0.4	1.67	4.52	84.4 *	2.7	6.29	0
7	14.8	2.41	16.3	2.52	48.6 *	15.34	0
8	9.69	5.04	3.7	51.3 *	3.99	26.22	0.02
9	54.5 *	1.38	12.3	0.62	19.6	11.63	0.01
10	0.81	2.67	82.8 *	4.42	3.75	5.54	0.01
11	1.73	10	1.13	68.8 *	1.93	16.34	0
12	9.17	2.24	80.5 *	2.1	0.49	5.53	0
13	2.95	36.5	6.46	40.2 *	1.68	12.17	0.01
14	3.55	6.74	5.51	18.1 *	1.23	64.84	0.01
15	3.06	3.42	2.62	4.57	13.9 *	72.45	0.02
16	6.84 *	6.67	5.88	3.95	1.82	74.81	0.02
17	2.32	10.4	10.1	13.1 *	10.3	53.77	0.03
18	1.89	2.99	31.2 *	3.29	1.17	59.48	0.03
19	10.9 *	3.82	4.31	3.04	7.74	70.21	0.01
20	1.77	4.41	2.88	3.93 *	1.19	85.81	0.01
21	6.47 *	9.13	3.71	3.34	1.85	75.5	0
22	9.03 *	3.83	4.45	5.83	10.3	66.52	0.03
23	4.76 *	3.61	3.33	1.67	1.28	85.34	0.02
24	2.58 *	2.07	1.65	1.27	13.7	78.76	0.02
25	2.75	3.93	8.73 *	2.96	3.35	78.27	0.01

Mathematical Association of America - American Mathematics Competitions
2007 AMC 12A/B ITEM DIFFICULTY continued

(*) Correct Response
 (?) Response the computer was unable to read

2007 AMC 12A, Item Difficulty - Grade 8 and below								2007 AMC 12A, Item Difficulty - Grade 9								2007 AMC 12A, Item Difficulty - Grade 10								2007 AMC 12A, Item Difficulty - Grade 11							
Percent of Responses - 277 Students								Percent of Responses - 2,390 Students								Percent of Responses - 6,884 Students								Percent of Responses - 40,172 Students							
ITEM	A	B	C	D	E	OMITS	?	ITEM	A	B	C	D	E	OMITS	?	ITEM	A	B	C	D	E	OMITS	?	ITEM	A	B	C	D	E	OMITS	?
1	0.36	1.08	97.5 *	0.36	0.36	0.36	0	1	0.33	2.18	93.6 *	2.26	1.05	0.63	0	1	0.36	1.28	95.8 *	1.53	0.7	0.36	0	1	0.34	1.55	95.3 *	1.83	0.68	0.32	0.01
2	1.08	0.36	1.44	88.8 *	3.97	4.33	0	2	4.02	3.85	2.76	66.7 *	4.94	17.74	0.04	2	3.07	2.59	2.44	75.4 *	3.28	13.28	0	2	3.2	2.87	2.42	73.1 *	3.79	14.57	0.01
3	88.1 *	0.36	4.69	0.36	0.72	5.78	0	3	86.4 *	1.26	5.02	1.05	1.05	5.23	0.04	3	89.2 *	0.9	3.83	0.78	1	4.31	0	3	88.1 *	1.1	4.03	1.02	1.04	4.68	0
4	86.6 *	1.81	5.78	0.72	2.89	2.17	0	4	61.8 *	2.64	21.2	4.9	3.89	5.56	0.04	4	72.4 *	2.09	14.2	3.02	4.24	4.07	0	4	72.7 *	2.09	14.2	2.89	3.69	4.4	0.01
5	1.08	0.72	16.3	74.4 *	1.44	6.14	0	5	0.79	2.55	23.4	63.4 *	0.84	9.04	0	5	0.57	1.38	16.2	74.5 *	0.73	6.68	0	5	0.52	1.41	16.8	73.8 *	0.81	6.62	0.01
6	7.94	3.61	2.89	68.2 *	1.81	15.52	0	6	8.28	4.02	5.48	61.6 *	3.81	16.82	0	6	7.45	3.36	4.58	67.9 *	2.24	14.45	0	6	8.1	3.11	4.82	65.6 *	2.7	15.69	0.02
7	14.8	1.44	52 *	1.44	4.69	25.27	0.36	7	30.5	1.34	25.1 *	0.54	8.54	33.85	0.13	7	31.6	1.06	28.1 *	0.46	9.14	29.55	0	7	33.1	1.12	27.1 *	0.64	9.35	28.66	0.06
8	2.17	5.78	49.5 *	15.5	7.94	19.13	0	8	3.05	3.26	40.8 *	16.4	11.4	25.1	0	8	2.7	3.62	44.7 *	15.1	13.5	20.28	0	8	2.78	4.31	41.2 *	14.9	15.1	21.71	0.02
9	1.44	57 *	0.36	2.89	15.5	22.74	0	9	5.73	34.6 *	2.01	1.76	16.6	39.25	0	9	4.74	38.9 *	2.19	2.25	15.7	36.24	0	9	5.37	35.3 *	2.78	2.64	15.7	38.24	0.01
10	45.9 *	3.61	1.08	8.3	5.05	36.1	0	10	24.2 *	9.37	3.6	5.36	3.97	53.51	0	10	31.1 *	8.74	3.56	5.4	3.12	48.1	0	10	28.5 *	9.56	3.44	5.2	3.08	50.23	0.01
11	11.9	2.89	2.89	31.1 *	1.81	49.46	0	11	8.37	4.48	6.69	23.2 *	1.38	55.9	0	11	10.3	4.91	5.87	25.5 *	1.23	52.18	0	11	10.4	4.91	6.14	24 *	1.34	53.21	0.01
12	5.78	4.33	14.8	6.14	29.6 *	39.35	0	12	6.36	4.64	18.6	6.9	14.1 *	49.33	0	12	6.93	5.01	18.8	6.71	15.8 *	46.73	0	12	6.25	5.27	20.3	7.3	14.1 *	46.79	0.02
13	5.78	50.2 *	8.3	8.3	3.61	23.83	0	13	7.2	31.8 *	16.9	9.21	4.52	30.33	0	13	7.03	39.6 *	15.7	8.95	5.14	23.53	0	13	8.04	37 *	17	8.81	5.29	23.85	0.03
14	4.69	23.5	45.5 *	1.44	2.17	22.74	0	14	5.44	16.7	23.4 *	3.6	2.72	48.16	0.04	14	6.2	18	28.3 *	2.91	2.24	42.43	0	14	6.25	18.9	26.1 *	3.35	2.36	43.12	0.02
15	10.1	9.03	12.6	4.69	35.7 *	27.8	0	15	11.8	4.77	13.1	4.81	24.4 *	41.17	0.04	15	10.6	5.01	15.1	4.78	29.6 *	34.91	0	15	11.9	5.17	14.8	5.43	27.9 *	34.71	0.03
16	16.6	6.5	15.9 *	8.3	5.78	46.93	0	16	9.54	4.31	9.92 *	9.21	2.97	64.06	0	16	11.6	4.37	8.8 *	8.77	3.72	62.74	0	16	11.7	5.18	8.19 *	8.53	3.78	62.62	0.01
17	3.97	12.6 *	1.08	3.97	2.17	76.17	0	17	5.31	7.41 *	1.97	2.09	1.97	81.26	0	17	4.02	8.56 *	2.11	3.72	2.85	78.72	0	17	4.79	7.75 *	3.28	3.94	4.38	75.85	0.01
18	4.33	2.53	1.81	17.3 *	3.61	70.4	0	18	4.9	1.84	3.05	6.99 *	2.34	80.84	0.04	18	4.31	2.24	4.18	8.37 *	2.66	78.21	0	18	4.89	2.63	4.08	7.11 *	2.95	78.31	0.02
19	3.61	1.44	3.97	4.33	6.86 *	79.78	0	19	3.43	2.59	3.26	3.72	4.31 *	82.68	0	19	3.14	2.51	3.4	3.15	3.79 *	83.99	0	19	3.44	3.09	3.99	4.06	3.42 *	81.99	0.01
20	2.17	14.1 *	2.53	3.97	2.89	74.37	0	20	1.72	3.64 *	2.18	3.35	4.39	84.73	0	20	1.86	4.55 *	2.41	3.92	3.75	83.51	0	20	1.84	3.83 *	3.41	4.1	4.14	82.66	0.01
21	10.5 *	3.61	3.61	2.89	2.17	77.26	0	21	4.9 *	5.56	6.15	3.51	4.14	75.69	0.04	21	6.2 *	5.26	8.24	5.36	5.11	69.81	0	21	5.27 *	5.53	8.57	6.55	5.99	68.07	0.02
22	5.78	8.66	11.6	6.86 *	0.72	66.43	0	22	6.07	5.02	7.03	4.06 *	1.13	76.69	0	22	7.31	6.14	6.57	3.82 *	1.44	74.71	0	22	8.37	5.99	7.79	4.13 *	1.48	72.22	0.01
23	4.69 *	1.81	3.25	3.25	0.72	86.28	0	23	3.72 *	2.55	4.39	2.59	3.22	83.47	0.04	23	4.15 *	2.48	4.91	3.17	3.14	82.15	0	23	4.26 *	3.16	5.56	3.59	4.12	79.28	0.02
24	0.36	4.69	1.44	2.53 *	4.33	86.64	0	24	1.3	2.47	2.59	1.46 *	2.26	89.87	0.04	24	1.34	3.27	2.19	1.66 *	1.92	89.61	0	24	1.75	3.27	3.19	1.95 *	2.03	87.79	0.01
25	3.61	2.17	3.97	4.69	4.69 *	80.87	0	25	4.81	4.06	3.14	3.77	2.64 *	81.59	0	25	4.85	3.52	2.6	3.25	2.6 *	83.18	0	25	5.06	4.53	3.23	3.33	2.55 *	81.28	0.01

2007 AMC 12B Results, Item Difficulty - Grade 8 and below								2007 AMC 12B Results, Item Difficulty - Grade 9								2007 AMC 12B Results, Item Difficulty - Grade 10								2007 AMC 12B Results, Item Difficulty - Grade 11							
Percent of Responses - 266 Students								Percent of Responses - 933 Students								Percent of Responses - 2,622 Students								Percent of Responses - 15,096 Students							
ITEM	A	B	C	D	E	OMITS	?	ITEM	A	B	C	D	E	OMITS	?	ITEM	A	B	C	D	E	OMITS	?	ITEM	A	B	C	D	E	OMITS	?
1	0.38	1.13	0	1.88	94.4 *	2.26	0	1	0.96	1.61	2.89	1.82	86.2 *	6.54	0	1	0.34	0.8	2.36	2.82	88.6 *	5.03	0	1	0.81	1.29	2.9	2.89	84.5 *	7.58	0.01
2	0	77.4 *	20.7	0.38	0	1.5	0	2	0.32	55.3 *	41.8	0.32	0.21	2.04	0	2	0.15	52.5 *	44.2	0.57	0.15	2.4	0	2	0.49	45.7 *	49.9	0.62	0.3	2.98	0.01
3	0.38	3.38	0.38	86.8 *	1.88	7.14	0	3	1.29	2.79	0.96	75.8 *	3.11	16.08	0	3	1.14	1.87	1.11	80.5 *	3.36	12.01	0	3	1.21	3	1.41	74 *	4.19	16.22	0.01
4	0	96.6 *	0.75	1.13	0.75	0.75	0	4	1.39	91.5 *	1.29	3.43	1.07	1.29	0	4	0.92	93.2 *	1.03	2.59	1.45	0.84	0	4	1.54	90.7 *	1.38	3.25	1.63	1.5	0
5	0	0.75	1.13	93.6 *	4.51	0	0	5	0.21	0.96	2.25	85.1 *	11	0.32	0.11	5	0.11	1.75	2.14	86.7 *	8.85	0.46	0	5	0.14	1.17	2.72	83.5 *	11.9	0.56	0.03
6	0	0.38	2.63	94.4 *	0.38	2.26	0	6	1.07	2.25	5.89	78.8 *	3.22	8.79	0	6	0.38	1.79	6.1	82.9 *	2.59	6.22	0	6	0.52	2.25	7.25	76.7 *	3.35	9.95	0
7	5.26	1.5	12.4	2.26	62.8 *	15.79	0	7	16.1	2.47	16	2.68	48.9 *	13.93	0	7	16.2	2.52	15	2.14	48.7 *	15.48	0	7	19.8	2.68	16	2.38	40.2 *	18.95	0
8	6.77	3.38	2.26	68.8 *	3.01	15.41	0.38	8	9.11	3.97	3	49.1 *	3.22	31.62	0	8	9.04	3.97	3.32	50.2 *	3.74	29.79	0	8	11.3	5.05	3.72	41.1 *	4.27	34.55	0.01
9	79 *	0.75	7.89	0	3.38	9.02	0	9	56 *	1.29	11.8	0.86	10.4	19.72	0	9	54.9 *	1.72	14.5	0.34	15.4	13.16	0	9	46.9 *	1.48	17.1	0.66	20.6	13.29	0.01
10	0.38	0.38	91.4 *	0	3.76	4.14	0	10	1.07	2.25	78.9 *	3.75	6.22	7.82	0	10	1.11	3.24	80.1 *	4.73	3.89	6.94	0	10	1.31	3.42	77.1 *	5.36	3.98	8.8	0.01
11	0.75	5.64	1.88	81.2 *	0.75	9.77	0	11	2.14	7.93	0.86	64.1 *	2.04	22.94	0	11	1.18	8.89	1.11	67.2 *	1.83	19.79	0	11	1.97	9.98	1.15	60.8 *	2.33	23.76	0
12	3.38	0	92.9 *	1.13	0	2.63	0	12	13.8	3.43	73.1 *	1.93	0.43	7.29	0	12	11.7	2.1	77.5 *	2.33	0.69	5.64	0	12	16	2.65	70.4 *	2.11	0.65	8.23	0.01
13	2.26	23.7	7.89	51.9 *	0	14.29	0	13	5.04	34.9	6.22	37.4 *	2.57	13.83	0	13	3.05	39.9	5.95	35.7 *	1.79	13.62	0	13	4.28	43.6	5.96	29.8 *	2.45	13.92	0.01
14	2.26	2.63	4.89	29.3 *	0.75	60.15	0	14	4.18	3	6	21 *	1.5	64.31	0	14	2.9	5.64	5.76	20 *	1.07	64.61	0	14	3.88	6.68	6.05	14.8 *	1.29	67.32	0.01
15	2.26	1.13	1.5	4.14	24.1 *	66.92	0	15	2.25	2.68	1.82	4.29	15.3 *	73.63	0	15	2.44	2.63	2.14	4.16	14.4 *	74.22	0	15	3.25	2.68	2.55	4.87	9.26 *	77.38	0.01
16	13.9 *	8.65	5.64	3.38	2.63	65.79	0	16	9.65 *	6.11	5.36	3.54	1.71	73.63	0	16	7.28 *	6.41	5.49	3.24	1.72	75.82	0	16	5.25 *	6.18	5.8	3.74	1.7	77.32	0.01
17	1.5	10.2	5.26	15.8 *	11.7	55.26	0.38	17	1.82	8.79	7.07	12.1 *	9.43	60.66	0.11	17	2.4</														

Mathematical Association of America - American Mathematics Competitions
2007 AMC 12A/B ITEM DIFFICULTY continued

(*) Correct Response
 (?) Response the computer was unable to read

2007 AMC 12A, Item Difficulty - Grade 12							
Percent of Responses - 34,674 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.31	1.38	96 *	1.61	0.44	0.29	0.02
2	2.68	2.56	2.2	77.7 *	2.73	12.07	0.02
3	90.2 *	0.94	3.38	0.76	0.78	3.93	0.01
4	77.9 *	1.63	11.1	2.39	3.34	3.63	0.03
5	0.48	1.15	13.2	79.6 *	0.65	4.85	0.02
6	7.71	3.06	4.31	69.1 *	2.25	13.59	0.03
7	31.3	1.3	29.8 *	0.52	8.89	28.1	0.05
8	2.83	4.94	42.8 *	13.5	13.9	22.02	0.03
9	4.86	40.7 *	2.77	2.65	14.8	34.19	0.03
10	31.8 *	8.58	3.47	5.19	2.82	48.09	0.03
11	9.59	4.83	5.62	26.7 *	1.29	51.98	0.03
12	6.17	5.07	18.3	7.3	16.7 *	46.47	0.04
13	7.05	42.9 *	14.4	7.98	4.41	23.22	0.04
14	6.05	18.7	29.5 *	3.18	1.97	40.58	0.02
15	9.86	4.74	15.2	5.14	32.7 *	32.4	0.03
16	11.4	5.12	8.88 *	8.35	3.15	63.05	0.03
17	4.51	9.2 *	3.07	3.82	4.06	75.3	0.03
18	3.53	2.56	4	7.12 *	2.65	80.11	0.03
19	3.01	2.94	3.97	3.73	3.37 *	82.97	0.03
20	1.99	4.21 *	3.47	3.78	3.73	82.79	0.03
21	4.77 *	4.59	7.91	6.19	5.53	70.97	0.03
22	7.15	6.01	7.5	4.36 *	1.32	73.64	0.02
23	4.61 *	3.08	5.44	3.23	3.44	80.18	0.03
24	1.84	3.59	3.18	2.23 *	2.31	86.83	0.02
25	4.26	3.77	3.03	3.21	2.38 *	83.34	0.01

2007 AMC 12A, Item Difficulty - Grade 13							
Percent of Responses - 86 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0	0	96.5 *	1.16	0	2.33	0
2	0	3.49	2.33	82.6 *	1.16	10.47	0
3	90.7 *	1.16	2.33	0	2.33	3.49	0
4	76.7 *	0	11.6	3.49	1.16	6.98	0
5	2.33	5.81	5.81	75.6 *	1.16	9.3	0
6	9.3	2.33	3.49	67.4 *	0	17.44	0
7	25.6	2.33	34.9 *	1.16	5.81	30.23	0
8	2.33	4.65	50 *	9.3	14	19.77	0
9	4.65	39.5 *	1.16	5.81	12.8	36.05	0
10	31.4 *	4.65	1.16	8.14	2.33	52.33	0
11	14	0	5.81	22.1 *	1.16	56.98	0
12	6.98	6.98	16.3	5.81	23.3 *	40.7	0
13	3.49	43 *	8.14	10.5	0	34.88	0
14	9.3	18.6	22.1 *	1.16	0	48.84	0
15	8.14	1.16	11.6	4.65	33.7 *	40.7	0
16	11.6	5.81	12.8 *	9.3	5.81	54.65	0
17	1.16	15.1 *	0	4.65	5.81	73.26	0
18	5.81	0	2.33	14 *	1.16	76.74	0
19	1.16	3.49	3.49	0	3.49 *	88.37	0
20	3.49	8.14 *	1.16	3.49	1.16	82.56	0
21	8.14 *	5.81	2.33	4.65	3.49	75.58	0
22	6.98	3.49	9.3	3.49 *	1.16	75.58	0
23	4.65 *	1.16	2.33	3.49	4.65	82.56	1.16
24	0	3.49	3.49	3.49 *	0	89.53	0
25	2.33	3.49	1.16	5.81	2.33 *	83.72	1.16

2007 AMC 12B Results, Item Difficulty - Grade 12							
Percent of Responses - 13,211 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0.55	1.06	2.69	3.23	86.3 *	6.15	0.01
2	0.46	50.8 *	45.2	0.62	0.2	2.79	0.01
3	1.36	2.86	1.7	75.4 *	4.05	14.64	0
4	1.12	92.1 *	1.2	2.78	1.6	1.25	0
5	0.22	1.48	2.74	85.4 *	9.58	0.58	0.03
6	0.52	1.98	6.06	79.6 *	3	8.88	0.02
7	17.5	2.63	15.6	2.38	43.1 *	18.83	0
8	11	5.12	3.78	46.2 *	4.01	29.88	0.02
9	53.4 *	1.31	12.9	0.61	21.4	10.37	0.05
10	1.1	2.93	80.3 *	4.57	3.56	7.52	0
11	2.08	9.62	1.26	63.9 *	2.22	20.96	0.01
12	13.6	2.57	73.7 *	2	0.52	7.67	0
13	4.2	38.6	6.31	33.3 *	2.52	15.14	0.01
14	3.37	6.59	5.45	15.2 *	1.43	67.94	0.02
15	2.95	3.41	2.85	4.93	10.7 *	75.17	0.02
16	5.26 *	6.09	5.26	3.63	1.7	78.03	0.02
17	2.45	9.67	11.3	10.6 *	10.4	55.61	0.03
18	1.8	2.96	26.5 *	3.4	1.2	64.16	0.02
19	9.41 *	3.55	4.25	3.06	7.4	72.31	0.03
20	1.73	4.54	2.84	3.35 *	1.11	86.41	0.02
21	5.09 *	9	3.75	3.12	1.8	77.22	0.01
22	7.65 *	3.7	4.32	6	10.7	67.64	0.01
23	4.26 *	3.56	3.28	1.61	1.26	86.01	0.02
24	2.12 *	1.99	1.89	1.23	12	80.72	0.03
25	2.85	3.97	8.43 *	2.85	3.31	78.58	0.01

2007 AMC 12B Results, Item Difficulty - Grade 13							
Percent of Responses - 123 Students							
ITEM	A	B	C	D	E	OMITS	?
1	0	0	0.81	2.44	95.1 *	1.63	0
2	1.63	69.9 *	28.5	0	0	0	0
3	1.63	1.63	0	85.4 *	3.25	8.13	0
4	0	98.4 *	0	1.63	0	0	0
5	0	0.81	0	93.5 *	5.69	0	0
6	0	0.81	3.25	87 *	3.25	5.69	0
7	8.94	1.63	7.32	3.25	71.5 *	7.32	0
8	8.94	3.25	5.69	71.5 *	0	10.57	0
9	79.7 *	0.81	3.25	0	8.94	7.32	0
10	0.81	0	90.2 *	3.25	1.63	4.07	0
11	0	8.13	0.81	83.7 *	0	7.32	0
12	6.5	0	91.1 *	0.81	0.81	0.81	0
13	1.63	22	13	48 *	3.25	12.2	0
14	1.63	1.63	4.07	24.4 *	2.44	65.85	0
15	2.44	3.25	2.44	2.44	17.9 *	71.54	0
16	12.2 *	10.6	0	4.88	1.63	70.73	0
17	1.63	9.76	8.13	13 *	11.4	56.1	0
18	0	1.63	15.5 *	3.25	0	79.67	0
19	7.32 *	5.69	1.63	4.88	6.5	73.98	0
20	0.81	2.44	2.44	3.25 *	0.81	90.24	0
21	4.07 *	5.69	0.81	0.81	0.81	87.8	0
22	8.13 *	2.44	4.07	3.25	5.69	76.42	0
23	4.07 *	1.63	0.81	1.63	0.81	91.06	0
24	1.63 *	2.44	0.81	0	7.32	87.8	0
25	2.44	4.88	4.88 *	0.81	0	86.99	0