

American Mathematics Competitions

Analysis of the 2011 AMC 10 A Results

Table of Item Difficulty for the 2011 Tabulation of responses for all Participants
Percent of Responses

ITEM	A	B	C	D	E	OMITS	?
1	0.43	0.61	11.48	84.97*	1.67	0.84	0.01
2	0.36	0.69	1.03	10.35	87.13*	0.41	0.03
3	1.68	4.15	5.84	60.97*	2.94	24.39	0.03
4	58.63*	5.41	6.72	5.00	3.46	20.75	0.03
5	3.88	18.43	55.88*	3.22	2.05	16.50	0.04
6	12.86	10.95	31.27*	17.20	4.52	23.15	0.05
7	5.18	40.38*	44.64	1.32	1.50	6.96	0.02
8	4.74	18.76	61.63*	2.08	2.66	10.11	0.02
9	33.85*	7.43	4.80	5.26	6.28	42.35	0.04
10	5.37	24.77*	5.95	12.24	13.63	38.01	0.03
11	8.35	28.64*	5.93	6.64	3.03	47.38	0.03
12	70.56*	2.41	3.46	6.44	2.71	14.39	0.03
13	28.78*	12.36	12.42	9.38	3.84	33.17	0.05
14	13.07	29.40*	11.96	3.51	3.06	38.97	0.03
15	4.98	6.56	32.34*	4.76	2.54	48.81	0.02
16	16.40	15.68*	3.73	4.38	18.71	41.07	0.03
17	1.65	2.98	65.56*	2.63	1.30	25.86	0.02
18	5.90	4.35	19.35*	11.96	6.49	51.91	0.04
19	5.01	7.14	6.20	4.40	9.39*	67.82	0.03
20	11.08	4.21	8.80	8.93*	11.75	55.17	0.05
21	6.07	6.13	8.32	6.93*	8.35	64.16	0.03
22	4.20	9.00	7.49*	6.11	6.58	66.58	0.03
23	6.60	5.10	18.46*	7.59	8.08	54.11	0.05
24	2.02	3.86	4.77	3.45*	2.72	83.15	0.02
25	2.51	4.08	4.06*	3.98	2.26	83.10	0.02

(*) Correct Response

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

American Mathematics Competitions

Analysis of the 2011 AMC 10 B Results

Table of Item Difficulty for the 2011 Tabulation of responses for all Participants
Percent of Responses

ITEM	A	B	C	D	E	OMITS	?
1	5.63	1.12	90.80*	0.85	0.21	1.39	0.00
2	12.27	2.58	3.59	3.59	75.74*	2.21	0.02
3	77.23*	5.90	3.90	4.59	1.68	6.70	0.01
4	5.79	5.14	65.07*	22.12	0.19	1.68	0.01
5	6.52	4.26	2.54	4.48	57.23*	24.94	0.04
6	78.61*	3.04	3.75	5.49	2.06	7.04	0.01
7	29.67	49.80*	5.36	2.59	4.64	7.92	0.01
8	24.70	67.46*	1.32	1.17	3.19	2.13	0.04
9	11.80	2.65	4.52	45.03*	3.23	32.75	0.02
10	10.68	43.38*	12.72	7.89	6.72	18.58	0.01
11	6.61	3.03	49.19	27.20*	3.45	10.50	0.02
12	40.04*	8.86	2.29	5.37	1.93	41.46	0.04
13	10.23	21.23	7.11	26.56*	8.05	26.80	0.01
14	6.67	6.89	44.52*	5.35	5.05	31.48	0.03
15	6.21	8.21	7.78	8.80	50.59*	18.34	0.06
16	30.32*	10.76	9.85	5.35	2.30	41.40	0.01
17	5.10	4.18	35.11*	9.66	11.15	34.77	0.02
18	1.77	5.34	18.68	20.52	27.08*	26.60	0.02
19	27.24*	10.46	3.70	7.27	11.25	40.02	0.06
20	4.27	16.96	16.53*	4.10	3.46	54.67	0.02
21	11.37	13.25*	6.21	5.31	3.06	60.78	0.03
22	6.96*	7.00	7.58	4.16	3.88	70.39	0.03
23	31.84	6.36	5.73	9.64*	4.08	42.29	0.05
24	7.94	4.98*	8.71	8.30	4.25	65.81	0.03
25	2.39	4.21	6.36	6.47*	4.42	76.15	0.01

(*) Correct Response

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Analysis of the 2011 AMC 12 A Results

Table of Item Difficulty for the 2011 Tabulation of responses for all Participants
Percent of Responses

ITEM	A	B	C	D	E	OMITS	?
1	0.32	0.42	7.98	89.73*	1.02	0.52	0.01
2	0.07	0.13	0.65	0.38	98.64*	0.12	0.01
3	0.24	0.52	0.94	7.89	90.10*	0.28	0.03
4	2.26	12.28	73.20*	2.17	1.34	8.73	0.02
5	4.04	14.43	71.92*	1.47	2.10	6.03	0.02
6	81.30*	1.58	2.39	4.48	1.57	8.67	0.02
7	4.86	33.11*	6.28	11.81	11.23	32.68	0.04
8	1.00	2.12	79.88*	1.89	0.91	14.19	0.01
9	5.81	20.35*	8.10	9.21	28.81	27.67	0.04
10	15.17	42.20*	11.63	3.45	2.49	25.03	0.02
11	5.07	4.08	29.21*	17.32	8.34	35.94	0.04
12	4.99	6.35	5.26	18.78*	25.99	38.57	0.05
13	34.67	8.25*	4.52	10.90	2.84	38.80	0.02
14	3.03	5.92	5.52	5.73	9.01*	70.75	0.03
15	11.00*	3.29	15.75	4.07	2.38	63.48	0.03
16	3.55	10.18	8.11*	6.15	7.85	64.13	0.04
17	3.51	4.73	5.65	11.38*	4.72	69.98	0.03
18	3.92	5.59	10.95	24.59*	2.22	52.70	0.04
19	5.07	4.72	9.74*	2.88	1.55	75.99	0.04
20	6.04	11.86	6.83*	3.52	2.40	69.34	0.02
21	1.91*	3.52	3.41	3.54	2.31	85.28	0.03
22	2.12	3.63	4.19*	3.42	1.62	84.98	0.02
23	2.78	3.80	4.75*	2.88	2.07	83.68	0.03
24	4.25	6.07	6.56*	3.71	6.16	73.22	0.03
25	4.54	5.11	4.35	3.14*	9.94	72.88	0.03

(*) Correct Response

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

American Mathematics Competitions

Analysis of the 2011 AMC 12 B Results

Table of Item Difficulty for the 2011 Tabulation of responses for all Participants
Percent of Responses

ITEM	A	B	C	D	E	OMITS	?
1	2.50	0.82	95.12*	0.61	0.12	0.82	0.01
2	7.42	1.43	2.60	2.82	84.47*	1.23	0.03
3	3.89	5.06	73.42*	16.49	0.10	1.02	0.02
4	4.22	3.16	1.64	3.76	69.35*	17.80	0.06
5	48.44*	2.61	1.87	27.06	12.12	7.87	0.03
6	1.76	5.47	48.33*	5.16	10.02	29.18	0.07
7	8.12	60.76*	3.15	9.53	2.52	15.89	0.02
8	49.94*	7.83	2.92	5.13	1.64	32.48	0.06
9	9.74	14.76	6.77	44.25*	6.92	17.53	0.03
10	2.02	5.51	19.28	22.18	33.62*	17.33	0.06
11	9.63	32.70*	10.14	14.59	5.16	27.73	0.05
12	40.95*	8.56	11.06	5.57	2.17	31.65	0.03
13	10.96	18.85*	6.52	5.79	2.75	55.12	0.02
14	2.40	6.44	4.01	10.93*	8.69	67.48	0.05
15	11.09	13.08	9.05	14.42*	4.35	47.96	0.04
16	4.38	20.24	20.88*	4.36	2.92	47.19	0.03
17	2.73	14.60*	8.51	5.38	6.82	61.92	0.04
18	10.94*	5.85	8.41	4.38	4.43	65.96	0.04
19	8.58	6.38*	8.93	8.90	3.39	63.78	0.03
20	3.49	4.95	6.28*	4.97	3.21	77.05	0.05
21	3.94	5.54	6.83	7.42*	1.49	74.75	0.03
22	2.18	3.73	5.06	5.14*	3.04	80.81	0.05
23	4.57	6.25	9.75*	5.83	3.53	70.01	0.06
24	3.38	3.22*	4.38	4.20	3.41	81.37	0.04
25	3.41	5.66	4.67	3.83*	2.98	79.43	0.02

(*) Correct Response

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