



**Ohio Achievement Test**  
Spring 2007 State Item Analysis

**Grade 8 Math**

Multiple Choice							
Item	Standard	Percent Responding					Percent Correct State
		**	A	B	C	D	
4	Data Analysis and Probability	0	6	12	13	69 (*)	69
5	Patterns, Functions and Algebra	0	7	14	72 (*)	7	72
7	Number Sense	0	3	9	10	77 (*)	77
8	Geometry and Spatial Sense	0	8	13	13	65 (*)	65
14	Data Analysis and Probability	0	45 (*)	5	37	13	45
17	Measurement	0	64 (*)	13	13	10	64
18	Number Sense	0	6	21	69 (*)	3	69
19	Patterns, Functions and Algebra	0	32 (*)	17	38	13	32
28	Number Sense	0	4	84 (*)	6	6	84
30	Patterns, Functions and Algebra	0	38	27	23 (*)	13	23
32	Geometry and Spatial Sense	0	18	18	61 (*)	4	61
34	Data Analysis and Probability	0	8	52 (*)	9	30	52
37	Measurement	0	12	44 (*)	39	5	44
38	Patterns, Functions and Algebra	1	39	16	34 (*)	11	34
42	Measurement	0	37 (*)	26	16	20	37
44	Patterns, Functions and Algebra	0	27	12	46 (*)	15	46

Short Answer						
Item	Standard	Percent at each score point			Mean Score State	
		**	0	1		2
11	Geometry and Spatial Sense	0	71	22	7	0.36

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You can use this chart to view the released questions in each content standard. The report represents your state's performance on all the questions. Individual test questions give an incomplete picture of student performance so it is better to focus on the performance data for each standard.

To view actual test questions, please visit the ODE Web site "<http://www.success.ode.state.oh.us/>" or refer to Ohio Department of Education publications.

Notes:

1. The state % reflect the percent of students selecting the correct response for multiple choice items.
2. The state mean reflects the average scores of students for short and extended response items.
3. \* means a correct answer
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5. From one year to the next, the difficulty of the questions may change.
6. This report comes from multiple sets of data. Find other sources of data or other reports that may be more appropriate for monitoring the performance of your students.



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**Grade 8 Reading**

<b>Multiple Choice</b>							
Item	Standard	Percent Responding					Percent Correct State
		**	A	B	C	D	
1	Literary Text	0	15	58 (*)	2	26	58
2	Acquisition of Vocabulary	0	3	3	3	92 (*)	92
4	Reading Process	0	3	90 (*)	4	3	90
5	Acquisition of Vocabulary	0	2	89 (*)	7	2	89
6	Literary Text	0	7	79 (*)	5	8	79
7	Literary Text	0	18	14	47 (*)	21	47
8	Literary Text	0	83 (*)	4	9	3	83
9	Reading Process	0	8	4	15	73 (*)	73
37	Informational Text	1	17	23	54 (*)	6	54
38	Informational Text	1	12	7	61 (*)	18	61
39	Informational Text	1	15	29	44 (*)	11	44
40	Reading Process	1	16	35	14	33 (*)	33
42	Acquisition of Vocabulary	1	43	10	5	41 (*)	41
43	Informational Text	1	7	46 (*)	15	31	46
44	Reading Process	1	56 (*)	17	16	10	56

<b>Short Answer</b>						
Item	Standard	Percent at each score point			Mean Score State	
		**	0	1		2
41	Acquisition of Vocabulary	0	34	33	33	0.99

<b>Extended Answer</b>								
Item	Standard	Percent at each score point						Mean Score State
		**	0	1	2	3	4	
3	Literary Text	0	8	5	14	43	31	2.86

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**Grade 8 Science**

Multiple Choice							
Item	Standard	Percent Responding					Percent Correct State
		**	A	B	C	D	
1	Physical Sciences	0	32	22	40 (*)	7	40
2	Life Sciences	0	66 (*)	12	13	8	66
3	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	3	1	22 (*)	73	22
4	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	14	6	21	59 (*)	59
5	Physical Sciences	0	15	6	9	70 (*)	70
7	Earth and Space Sciences	0	5	7	72 (*)	16	72
8	Earth and Space Sciences	0	5	6	20	69 (*)	69
9	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	10	25	52 (*)	12	52
10	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	19	53 (*)	7	21	53
12	Earth and Space Sciences	0	13	16	36 (*)	35	36
13	Physical Sciences	0	26	10	14	49 (*)	49
14	Life Sciences	0	7	85 (*)	5	4	85
15	Physical Sciences	0	7	3	3	87 (*)	87
23	Life Sciences	0	4	4	89 (*)	3	89
24	Earth and Space Sciences	0	57 (*)	14	10	20	57
25	Life Sciences	0	66 (*)	13	13	8	66
26	Physical Sciences	0	5	14	70 (*)	10	70
28	Life Sciences	0	12	12	16	60 (*)	60
29	Life Sciences	0	7	37 (*)	12	44	37
30	Earth and Space Sciences	0	9	6	51 (*)	34	51
31	Physical Sciences	0	54 (*)	8	24	14	54
33	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	43	47 (*)	7	3	47
34	Physical Sciences	0	37 (*)	28	15	20	37
35	Life Sciences	0	15	10	9	66 (*)	66
36	Life Sciences	0	72 (*)	12	8	7	72
37	Earth and Space Sciences	0	78 (*)	5	7	10	78
39	Life Sciences	0	19	20	46 (*)	15	46
40	Earth and Space Sciences	0	28	3	7	62 (*)	62
41	Life Sciences	0	13	43 (*)	18	26	43
42	Earth and Space Sciences	0	19	57 (*)	10	14	57
43	Physical Sciences	0	59 (*)	12	16	12	59
44	Earth and Space Sciences	0	21	9	60 (*)	9	60

Short Answer						
Item	Standard	Percent at each score point			Mean Score State	
		**	0	1		2
6	Physical Sciences	0	57	38	5	0.48
16	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	63	30	8	0.46
27	Life Sciences	0	39	41	20	0.81
32	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	26	52	22	0.96

Extended Answer								
Item	Standard	Percent at each score point					Mean Score State	
		**	0	1	2	3		4
11	Earth and Space Sciences	0	50	15	19	5	11	1.12
38	Scientific Processes: Inquiry, Technology, and Ways of Knowing	0	41	20	20	14	5	1.22

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**Grade 8 Social Studies**

Multiple Choice							
Item	Standard	Percent Responding					Percent Correct State
		**	A	B	C	D	
1	Economics, Government, and Citizenship Rights and Responsibilities	0	83 (*)	4	9	5	83
2	Economics, Government, and Citizenship Rights and Responsibilities	0	61 (*)	7	23	10	61
3	Social Studies Skills and Methods	0	3	5	59 (*)	33	59
4	Economics, Government, and Citizenship Rights and Responsibilities	0	24	44 (*)	12	20	44
5	People in Societies and Geography	0	64 (*)	12	15	9	64
7	Social Studies Skills and Methods	0	7	5	20	67 (*)	67
8	History	0	15	57 (*)	16	11	57
9	History	0	4	6	11	79 (*)	79
10	People in Societies and Geography	0	15	31	44 (*)	9	44
12	Economics, Government, and Citizenship Rights and Responsibilities	0	28	18	44 (*)	10	44
13	People in Societies and Geography	0	12	73 (*)	9	6	73
14	Economics, Government, and Citizenship Rights and Responsibilities	0	74 (*)	11	8	6	74
15	Economics, Government, and Citizenship Rights and Responsibilities	0	7	17	5	70 (*)	70
17	History	0	65 (*)	13	7	15	65
18	Economics, Government, and Citizenship Rights and Responsibilities	0	32	14	17	37 (*)	37
19	People in Societies and Geography	0	7	6	6	81 (*)	81
20	History	0	12	63 (*)	17	8	63
22	History	0	17	25	21	37 (*)	37
23	People in Societies and Geography	0	9	11	71 (*)	9	71
24	Social Studies Skills and Methods	0	8	12	74 (*)	6	74
25	People in Societies and Geography	0	16	29	5	50 (*)	50
27	Economics, Government, and Citizenship Rights and Responsibilities	0	53 (*)	8	7	32	53
34	Economics, Government, and Citizenship Rights and Responsibilities	0	27	49 (*)	13	12	49
35	History	0	18	13	53 (*)	15	53
36	Social Studies Skills and Methods	0	7	39 (*)	20	34	39
37	Social Studies Skills and Methods	0	25	12	22	41 (*)	41
39	People in Societies and Geography	0	65 (*)	10	11	13	65
40	Economics, Government, and Citizenship Rights and Responsibilities	0	38	13	38 (*)	10	38
41	History	0	6	23	47 (*)	24	47
42	People in Societies and Geography	0	40 (*)	16	18	25	40
43	People in Societies and Geography	0	18	56 (*)	13	13	56
44	Economics, Government, and Citizenship Rights and Responsibilities	0	50 (*)	20	10	20	50

Short Answer						
Item	Standard	Percent at each score point			Mean Score State	
		**	0	1		2
11	History	0	69	21	10	0.41
16	Social Studies Skills and Methods	0	19	35	46	1.27
21	Social Studies Skills and Methods	0	52	26	22	0.7
38	Economics, Government, and Citizenship Rights and Responsibilities	0	41	41	18	0.77

Extended Answer								
Item	Standard	Percent at each score point					Mean Score State	
		**	0	1	2	3		4
6	History	0	87	1	5	3	4	0.36
26	People in Societies and Geography	0	65	14	15	4	3	0.68

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