

Ohio Achievement Test

Spring 2007 State Item Analysis

Grade 5 Math

| Multiple Choice | | | | | | | |
|-----------------|---------------------------------|----|--------|--------|----------|--------|-----------------|
| Item | Standard | | Р | ercent | Respondi | ng | Percent Correct |
| item | Staridard | ** | Α | В | C | D | State |
| 2 | Number Sense | 0 | 16 | 8 | 61 (*) | 15 | 61 |
| 3 | Data Analysis and Probability | 0 | 5 | 23 | 10 | 62 (*) | 62 |
| 4 | Geometry and Spatial Sense | 0 | 4 | 77 (*) | 4 | 15 | 77 |
| 6 | Data Analysis and Probability | 0 | 15 | 81 (*) | 1 | 3 | 81 |
| 8 | Measurement | 0 | 6 | 17 | 12 | 65 (*) | 65 |
| 12 | Data Analysis and Probability | 0 | 5 | 5 | 88 (*) | 2 | 88 |
| 13 | Measurement | 0 | 8 | 6 | 6 | 80 (*) | 80 |
| 14 | Number Sense | 0 | 81 (*) | 8 | 9 | 2 | 81 |
| 16 | Patterns, Functions and Algebra | 0 | 29 | 13 | 56 (*) | 2 | 56 |
| 19 | Geometry and Spatial Sense | 0 | 1 | 5 | 89 (*) | 5 | 89 |
| 27 | Patterns, Functions and Algebra | 0 | 11 | 21 | 47 (*) | 21 | 47 |
| 28 | Number Sense | 0 | 80 (*) | 4 | 12 | 4 | 80 |
| 30 | Measurement | 0 | 7 | 25 | 56 (*) | 12 | 56 |
| 31 | Geometry and Spatial Sense | 0 | 10 | 64 (*) | 15 | 11 | 64 |
| 32 | Number Sense | 0 | 6 | 59 (*) | 11 | 24 | 59 |
| 46 | Number Sense | 1 | 14 | 49 (*) | 12 | 25 | 49 |

| Short Answer | | | | | | | | | | |
|--------------|----------------------------|------|----------|--------|-----------|------------|--|--|--|--|
| Item | Standard | Perc | ent at e | ach sc | ore point | Mean Score | | | | |
| item | Statioalu | ** | 0 | 1 | 2 | State | | | | |
| 38 | Geometry and Spatial Sense | 1 | 37 | 44 | 18 | 0.8 | | | | |
| 42 | Number Sense | 0 | 30 | 35 | 35 | 1.05 | | | | |

| Extended Response | | | | | | | | | | |
|-------------------|-------------------------------|----|----|-----|-------------|----------------|---|------------|--|--|
| Item | Standard | | | Pei | rcent at ea | ach score poin | t | Mean Score | | |
| iteiii | Statioalu | ** | 0 | 1 | 2 | 3 | 4 | State | | |
| 33 | Data Analysis and Probability | 0 | 43 | 30 | 16 | 7 | 4 | 0.99 | | |

According to Ohio Revised Code (ORC) 3301.07.11:N4(b).....not less than forty percent of the questions on the test that are used to compute a student's score shall be public record. The Ohio Department of Education shall determine which questions will be needed for reuse on a future test and those questions shall not be public records and shall be redacted from the test prior to its release as a public record.

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Notes:

- 1. The state % reflect the percent of students selecting the correct response for multiple choice items.
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- 3. * means a correct answer
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Spring 2007 State Item Analysis

Grade 5 Reading

| Multiple Choice | | | | | | | |
|-----------------|---------------------------|----|--------|--------|----------|--------|-----------------|
| Item | Standard | | Р | ercent | Respondi | ng | Percent Correct |
| цеп | Standard | ** | Α | В | C | D | State |
| 1 | Literary Text | 0 | 94 (*) | 2 | 3 | 2 | 94 |
| 2 | Reading Process | 0 | 17 | 62 (*) | 1 | 19 | 62 |
| 3 | Reading Process | 0 | 1 | 3 | 94 (*) | 2 | 94 |
| 4 | Literary Text | 0 | 6 | 77 (*) | 3 | 14 | 77 |
| 5 | Acquisition of Vocabulary | 0 | 91 (*) | 3 | 2 | 4 | 91 |
| 6 | Acquisition of Vocabulary | 0 | 7 | 5 | 77 (*) | 11 | 77 |
| 8 | Reading Process | 0 | 1 | 84 (*) | 15 | 1 | 84 |
| 9 | Acquisition of Vocabulary | 0 | 5 | 15 | 72 (*) | 8 | 72 |
| 11 | Acquisition of Vocabulary | 0 | 6 | 80 (*) | 5 | 9 | 80 |
| 12 | Acquisition of Vocabulary | 0 | 20 | 7 | 9 | 63 (*) | 63 |
| 14 | Informational Text | 0 | 10 | 6 | 70 (*) | 14 | 70 |
| 15 | Informational Text | 0 | 86 (*) | 4 | 1 | 9 | 86 |
| 16 | Literary Text | 0 | 9 | 85 (*) | 3 | 2 | 85 |
| 17 | Acquisition of Vocabulary | 0 | 9 | 84 (*) | 4 | 3 | 84 |
| 19 | Reading Process | 0 | 4 | 2 | 2 | 92 (*) | 92 |
| 20 | Reading Process | 0 | 1 | 3 | 7 | 89 (*) | 89 |
| 21 | Literary Text | 0 | 20 | 71 (*) | 6 | 3 | 71 |

| Short Answer | | | | | | | | | | | |
|---------------|----------------------------------|----|----|----|----|-------|--|--|--|--|--|
| Item Standard | Percent at each score point Mean | | | | | | | | | | |
| item | Statidatu | ** | 0 | 1 | 2 | State | | | | | |
| 7 | Reading Process | 0 | 18 | 42 | 40 | 1.22 | | | | | |
| 10 | Reading Process | 0 | 25 | 32 | 43 | 1.18 | | | | | |
| 18 | Literary Text | 0 | 47 | 16 | 37 | 0.9 | | | | | |

| Extended Answer | | | | | | | | | |
|-----------------|--------------------|----|----|------------|----|----|----|-------|--|
| Itana Ctandard | | | it | Mean Score | | | | | |
| Item | Standard | ** | 0 | 1 | 2 | 3 | 4 | State | |
| 13 | Informational Text | 0 | 6 | 9 | 16 | 27 | 42 | 2.9 | |

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Ohio Achievement Test

Spring 2007 State Item Analysis

Grade 5 Science

| Item | Standard | | P | | Respondi | | Percent Correct |
|--------|--|----|--------|--------|----------|--------|-----------------|
| ILCIII | Standard | ** | Α | В | С | D | State |
| 1 | Physical Sciences | 0 | 59 (*) | 27 | 10 | 4 | 59 |
| 2 | Life Sciences | 0 | 92 (*) | 2 | 2 | 4 | 92 |
| 3 | Life Sciences | 0 | 1 | 72 (*) | 16 | 11 | 72 |
| 4 | Life Sciences | 0 | 3 | 10 | 8 | 79 (*) | 79 |
| 5 | Life Sciences | 0 | 14 | 9 | 15 | 63 (*) | 63 |
| 7 | Earth and Space Sciences | 0 | 6 | 23 | 60 (*) | 10 | 60 |
| 8 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 7 | 51 (*) | 13 | 30 | 51 |
| 9 | Physical Sciences | 0 | 11 | 59 (*) | 9 | 21 | 59 |
| 10 | Physical Sciences | 0 | 8 | 29 | 54 (*) | 9 | 54 |
| 12 | Physical Sciences | 0 | 4 | 73 (*) | 12 | 11 | 73 |
| 13 | Physical Sciences | 0 | 36 | 5 | 53 (*) | 6 | 53 |
| 14 | Life Sciences | 0 | 3 | 85 (*) | 7 | 5 | 85 |
| 15 | Earth and Space Sciences | 0 | 15 | 67 (*) | 10 | 8 | 67 |
| 23 | Earth and Space Sciences | 0 | 3 | 15 | 70 (*) | 12 | 70 |
| 24 | Life Sciences | 0 | 15 | 65 (*) | 7 | 13 | 65 |
| 25 | Physical Sciences | 0 | 11 | 27 | 56 (*) | 7 | 56 |
| 26 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 11 | 8 | 8 | 72 (*) | 72 |
| 28 | Physical Sciences | 0 | 4 | 8 | 14 | 74 (*) | 74 |
| 29 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 51 (*) | 35 | 9 | 5 | 51 |
| 30 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 3 | 3 | 84 (*) | 10 | 84 |
| 31 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 8 | 5 | 70 (*) | 16 | 70 |
| 33 | Physical Sciences | 0 | 2 | 3 | 59 (*) | 37 | 59 |
| 34 | Earth and Space Sciences | 0 | 12 | 8 | 76 (*) | 3 | 76 |
| 35 | Physical Sciences | 0 | 4 | 73 (*) | 4 | 19 | 73 |
| 36 | Life Sciences | 0 | 8 | 73 (*) | 14 | 5 | 73 |
| 37 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 14 | 6 | 26 | 55 (*) | 55 |
| 39 | Earth and Space Sciences | 0 | 6 | 69 (*) | 23 | 3 | 69 |
| 40 | Earth and Space Sciences | 0 | 13 | 59 (*) | 23 | 5 | 59 |
| 41 | Earth and Space Sciences | 0 | 11 | 27 | 12 | 50 (*) | 50 |
| 42 | Earth and Space Sciences | 0 | 74 (*) | 8 | 13 | 4 | 74 |
| 43 | Earth and Space Sciences | 0 | 10 | 11 | 71 (*) | 8 | 71 |
| 44 | Life Sciences | 0 | 57 (*) | 13 | 14 | 15 | 57 |

| Short Answer | | | | | | | | | | |
|--------------|--|------|----------|--------|-----------|------------|--|--|--|--|
| Item | Standard | Perc | ent at e | ach sc | ore point | Mean Score | | | | |
| iteiii | Standard | ** | 0 | 1 | 2 | State | | | | |
| 16 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 34 | 46 | 20 | 0.86 | | | | |
| 27 | Physical Sciences | 0 | 74 | 13 | 13 | 0.39 | | | | |
| 32 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 0 | 29 | 43 | 28 | 0.99 | | | | |
| 38 | Life Sciences | 0 | 15 | 28 | 57 | 1.42 | | | | |

| Extended Answer | | | | | | | | | | |
|-----------------|--|----|----|-----|-------------|----------------|----|------------|--|--|
| Item | Standard | | | Pei | rcent at ea | ach score poin | it | Mean Score | | |
| Item | Standard | ** | 0 | 1 | 2 | 3 | 4 | State | | |
| 6 | Earth and Space Sciences | 0 | 40 | 33 | 16 | 9 | 2 | 1 | | |
| 11 | Scientific Processes: Inquiry, Technology, and Ways of Knowing | 1 | 35 | 26 | 29 | 6 | 3 | 1.14 | | |

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Ohio Achievement Test

Spring 2007 State Item Analysis

Grade 5 Social Studies

| | 0: 1 | | F | ercent | Respondi | na | Percent Correc |
|------|--|----|--------|--------|----------|--------|----------------|
| Item | Standard | ** | Α | В | С | D | State |
| 1 | History | 0 | 30 | 45 (*) | 21 | 4 | 45 |
| 2 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 13 | 35 (*) | 8 | 45 | 35 |
| 3 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 9 | 39 | 6 | 47 (*) | 47 |
| 4 | Social Studies Skills and Methods | 0 | 4 | 5 | 89 (*) | 2 | 89 |
| 5 | People in Societies and Geography | 0 | 24 | 8 | 50 (*) | 17 | 50 |
| 7 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 30 | 44 (*) | 14 | 12 | 44 |
| 8 | History | 0 | 8 | 8 | 23 | 60 (*) | 60 |
| 9 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 8 | 4 | 84 (*) | 5 | 84 |
| 10 | History | 0 | 26 | 44 (*) | 18 | 12 | 44 |
| 12 | People in Societies and Geography | 0 | 13 | 6 | 75 (*) | 6 | 75 |
| 13 | Social Studies Skills and Methods | 0 | 6 | 4 | 47 (*) | 43 | 47 |
| 14 | People in Societies and Geography | 0 | 13 | 9 | 5 | 72 (*) | 72 |
| 15 | Economics, Government, and Citizenship Rights and Responsibilities | 1 | 13 | 40 | 35 (*) | 11 | 35 |
| 17 | People in Societies and Geography | 0 | 54 (*) | 18 | 7 | 21 | 54 |
| 18 | History | 0 | 5 | 62 (*) | 12 | 21 | 62 |
| 19 | People in Societies and Geography | 0 | 17 | 11 | 60 (*) | 13 | 60 |
| 20 | History | 0 | 74 (*) | 4 | 13 | 9 | 74 |
| 22 | People in Societies and Geography | 0 | 34 | 7 | 10 | 49 (*) | 49 |
| 23 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 7 | 80 (*) | 8 | 4 | 80 |
| 24 | People in Societies and Geography | 0 | 26 | 10 | 12 | 52 (*) | 52 |
| 25 | Social Studies Skills and Methods | 0 | 21 (*) | 45 | 28 | 6 | 21 |
| 27 | History | 0 | 21 | 16 | 5 | 58 (*) | 58 |
| 34 | Social Studies Skills and Methods | 0 | 70 (*) | 7 | 12 | 10 | 70 |
| 35 | History | 0 | 15 | 43 (*) | 29 | 14 | 43 |
| 36 | Social Studies Skills and Methods | 0 | 18 | 11 | 18 | 53 (*) | 53 |
| 37 | Economics, Government, and Citizenship Rights and Responsibilities | 1 | 7 | 70 (*) | 7 | 16 | 70 |
| 39 | People in Societies and Geography | 0 | 45 (*) | 12 | 29 | 14 | 45 |
| 40 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 51 (*) | 17 | 8 | 24 | 51 |
| 41 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 22 | 36 (*) | 25 | 17 | 36 |
| 42 | Economics, Government, and Citizenship Rights and Responsibilities | 0 | 56 (*) | 9 | 6 | 29 | 56 |
| 43 | Social Studies Skills and Methods | 0 | 7 | 7 | 67 (*) | 19 | 67 |
| 44 | History | 0 | 56 (*) | 15 | 13 | 16 | 56 |

| Short Answer | | | | | | | | | | |
|--------------|-----------------------------------|------|----------|------------|----|-------|--|--|--|--|
| Item | Standard | Perc | ent at e | Mean Score | | | | | | |
| iteiii | Standard | ** | 0 | 1 | 2 | State | | | | |
| 11 | People in Societies and Geography | 0 | 63 | 26 | 11 | 0.48 | | | | |
| 16 | Social Studies Skills and Methods | 0 | 15 | 31 | 54 | 1.39 | | | | |
| 21 | Social Studies Skills and Methods | 0 | 47 | 33 | 20 | 0.73 | | | | |
| 38 | History | 0 | 15 | 53 | 32 | 1.17 | | | | |

| Extended Answer | | | | | | | | | | |
|-----------------|--|----|----|-----|-------------|----------------|----|------------|--|--|
| Item | Standard | | | Pei | rcent at ea | ach score poin | nt | Mean Score | | |
| item | Standard | ** | 0 | 1 | 2 | 3 | 4 | State | | |
| 6 | Economics, Government, and Citizenship Rights and Responsibilities | 1 | 12 | 11 | 30 | 21 | 25 | 2.34 | | |
| 26 | People in Societies and Geography | 0 | 8 | 18 | 10 | 17 | 47 | 2.77 | | |

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