Ohio Achievement Assessment
Grade 4 Mathematics

Spring 2011

Answer Key
and
Scoring Guidelines

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Answer Key
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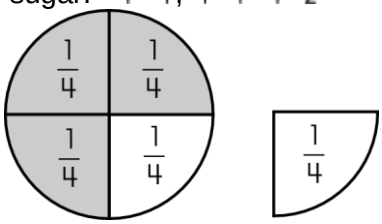
Item No.	Type	Content Standard	Content Standard Benchmark	Key
1	Multiple Choice	Geometry and Spatial Sense	C	C
2	Multiple Choice	Number, Number Sense and Operations	E	D
3	Multiple Choice	Patterns, Functions, and Algebra	B	B
4	Multiple Choice	Measurement	A	C
5	Short Answer	Data Analysis and Probability	F	Not for public release
6	Multiple Choice	Patterns, Functions, and Algebra	F	B
7	Multiple Choice	Number, Number Sense and Operations	G	Not for public release
8	Multiple Choice	Patterns, Functions, and Algebra	C	A
9	Multiple Choice	Number, Number Sense and Operations	C	B
10	Extended Response	Geometry and Spatial Sense	E	Not for public release
11	Multiple Choice	Data Analysis and Probability	D	D
12-17	**Field Test questions not used for student score**			
18	Multiple Choice	Patterns, Functions, and Algebra	A	Not for public release
19	Multiple Choice	Number, Number Sense and Operations	L	Not for public release
20	Short Answer	Measurement	B	Not for public release
21	Multiple Choice	Geometry and Spatial Sense	D	Not for public release
22	Multiple Choice	Patterns, Functions, and Algebra	D	Not for public release
23	Multiple Choice	Geometry and Spatial Sense	I	Not for public release
24	Multiple Choice	Data Analysis and Probability	E	Not for public release
25	Multiple Choice	Measurement	A	C
26	Extended Response	Number, Number Sense and Operations	F	Not for public release
27	Multiple Choice	Patterns, Functions, and Algebra	E	B
28	Multiple Choice	Measurement	D	Not for public release
29	Multiple Choice	Data Analysis and Probability	H	A
30	Multiple Choice	Number, Number Sense and Operations	D	Not for public release
31	Short Answer	Patterns, Functions, and Algebra	E	Not for public release
32	Multiple Choice	Data Analysis and Probability	C	Not for public release
33	Multiple Choice	Number, Number Sense and Operations	J	C
34	Multiple Choice	Geometry and Spatial Sense	G	Not for public release
35	Short Answer	Data Analysis and Probability	A	Not for public release
36	Multiple Choice	Number, Number Sense and Operations	K	Not for public release
37	Multiple Choice	Patterns, Functions, and Algebra	G	Not for public release
38	Multiple Choice	Number, Number Sense and Operations	A	Not for public release
39	Short Answer	Measurement	D	Not for public release
40	Multiple Choice	Data Analysis and Probability	G	D
41	Multiple Choice	Number, Number Sense and Operations	B	C
42	Multiple Choice	Measurement	D	Not for public release
43	Multiple Choice	Geometry and Spatial Sense	I	A
44	Short Answer	Number, Number Sense and Operations	M	2 pt rubric
45	Multiple Choice	Data Analysis and Probability	B	B
46	Multiple Choice	Geometry and Spatial Sense	A	D

Limited = 0-16; Basic = 17-24; Proficient = 25-36; Accelerated = 37-42; Advanced = 43-52
Multiple Choice = 1 point; Short Answer = 2 points; Extended Response = 4 points

44. Gary is making lemonade, using a recipe that calls for $1\frac{1}{4}$ cups of sugar. He has already added $\frac{3}{4}$ cup of sugar to the pitcher.

Scoring Guidelines

Points	Student Response
2 point	**Sample Response:** • Gary needs to add $\frac{1}{2}$ cup of sugar. $1\frac{1}{4}=\frac{5}{4}$, $\frac{5}{4}-\frac{3}{4}=\frac{2}{4}=\frac{1}{2}$  He needs to add $\frac{2}{4}$ cup more. The focus of this task is subtracting fractions with like denominators. The response provides the fraction of cups needed with supporting work or an adequate explanation.
1 point	The response shows partial evidence of subtracting fractions with like denominators; however, the response may be incomplete or slightly flawed. **Sample Response:** • Only provide the correct amount of sugar that needs to be added.
0 point	The response provides inadequate evidence of subtracting fractions with like denominators. The response provides major flaws in explanations or irrelevant information. **Sample Response:** • Only provide an incorrect amount of sugar that needs to be added. • Restate the information provided in the item. • Be blank or give irrelevant information.