

**Ohio Achievement Assessment
Grade 5 Mathematics**

Spring 2011

**Answer Key
and
Scoring Guidelines**

**Grade 5 Mathematics
Answer Key
Spring 2011**

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

Limited = 0-17; Basic = 18-24; Proficient = 25-33; Accelerated = 34-37; Advanced = 38-52
Multiple Choice = 1 point; Short Answer = 2 points; Extended Response = 4 points

35. A library is having a reading contest. Students are awarded points for reading books. They receive prizes based on the number of points they earn. The table shows the number of points they earn after reading different numbers of books.

Write the rule that the library uses to determine the number of points a student earns for reading x books, then use the rule to determine the number of points a student would earn for reading 5 books.

In the **Answer Document** show or explain how you found the number of points.
(2 points)

Scoring Guidelines

Points	Student Response
2 point	<p>Sample Response:</p> <ul style="list-style-type: none"> • The rule is: $5x + 3 = 5 \times 5 + 3 = 25 + 3 = 28$ points • The library gives 8 points for the first book and then 5 for each book after that. So for 5 books it would be $8 + 5 + 5 + 5 + 5 = 28$ points <p>The focus of this task is using a general rule to describe a relationship in a pattern. The response provides an appropriate rule and finds the number of points that would be earned for reading 5 books with supporting work or an appropriate explanation.</p>
1 point	<p>The response shows partial evidence of using a general rule to describe a relationship in a pattern; however, the solution may be incomplete or slightly flawed.</p> <p>Sample Response:</p> <ul style="list-style-type: none"> • Provide an appropriate rule and the correct number of points for 5 books, but fail to provide supporting work. • Only provide an appropriate rule without supporting work or an appropriate explanation. • Provide the number of points for 5 books with supporting work or an appropriate explanation, but fail to provide the rule.
0 point	<p>The response provides inadequate evidence of using a general rule to describe a relationship in a pattern. The solution may have major flaws or errors in reasoning.</p> <p>Sample Response:</p> <ul style="list-style-type: none"> • Only provide the number of points without adequate supporting work. • Only provide the rule as add 10. • Restate the information provided in the item. • Be blank or give irrelevant information.