

*Alabama Reading and Mathematics Test*  
(ARMT)

Grades 3-8

Test Blueprints

*Alabama Reading and Mathematics Test*  
Grade 3 Reading

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Open-Ended Points Possible
Apply advanced phonetic analysis to multiple-syllable words.	7	7	0
Demonstrate reading vocabulary knowledge.	8	8	0
Use strategies to comprehend literary/recreational materials.	17	11	6
Use strategies to comprehend functional and textual/informational materials.	26	20	6
<b>TOTAL</b>	<b>58</b>	<b>46</b>	<b>12</b>

Multiple-choice questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 3 Mathematics

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Gridded Points Possible	Open-Ended Points Possible
Number and Operations	30	24	0	6
Compare, order, and expand whole numbers.	4	4	0	0
Solve addition and subtraction problems.	9	6	0	3
Multiply whole numbers with and without regrouping.	4	4	0	0
Divide whole numbers.	4	4	0	0
Model equivalent forms of fractions.	4	4	0	0
Use coins to make change.	5	2	0	3
Algebra	6	3	0	3
Complete numeric and geometric patterns.	6	3	0	3
Geometry	10	7	0	3
Identify points, lines, perpendicular lines, parallel lines, angles, and rays.	4	4	0	0
Find locations on a grid using horizontal and vertical movements.	6	3	0	3
Measurement	6	6	0	0
Measure length in metric units.	3	3	0	0
Determine elapsed time to the day with calendars and to the hour with a clock.	3	3	0	0
Data Analysis and Probability	6	6	0	0
Recognize data as categorical or numerical.	3	3	0	0
Determine the likelihood of different outcomes of simple events.	3	3	0	0
<b>TOTAL</b>	<b>58</b>	<b>46</b>	<b>0</b>	<b>12</b>

Multiple-choice and gridded questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 4 Reading

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Open-Ended Points Possible
Demonstrate word recognition skills.	7	7	0
Demonstrate reading vocabulary knowledge.	9	9	0
Use strategies to comprehend literary/recreational materials.	17	11	6
Identify literary elements and devices in literary/recreational materials and identify details in textual/informational materials.	22	22	0
Use strategies to comprehend functional and textual/informational materials.	17	11	6
<b>TOTAL</b>	<b>72</b>	<b>60</b>	<b>12</b>

Multiple-choice questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 4 Mathematics

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Gridded Points Possible	Open-Ended Points Possible
<b>Number and Operations</b>	<b>36</b>	<b>27</b>	<b>3</b>	<b>6</b>
Compare and order decimals and whole numbers.	4	4	0	0
Write money amounts in words and dollar and cent notation.	3	2	1	0
Rename improper fractions as mixed numbers and mixed numbers as improper fractions.	3	3	0	0
Add and subtract fractions with common denominators.	4	4	0	0
Round whole numbers and decimals.	4	3	1	0
Add and subtract 4-digit numbers with and without regrouping.	7	3	1	3
Multiply and divide whole numbers.	7	4	0	3
Recognize equivalent forms of fractions & decimals.	4	4	0	0
<b>Algebra</b>	<b>8</b>	<b>7</b>	<b>1</b>	<b>0</b>
Write number sentences that involve multiplication or division.	4	4	0	0
Complete addition and subtraction number sentences.	4	3	1	0
<b>Geometry</b>	<b>8</b>	<b>8</b>	<b>0</b>	<b>0</b>
Identify triangles, quadrilaterals, pentagons, hexagons, or octagons.	4	4	0	0
Find locations on a map or grid using ordered pairs.	4	4	0	0
<b>Measurement</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>
Calculate elapsed time in hours and minutes.	3	3	0	0
Measure length, width, weight, capacity, and temperature.	6	6	0	0
<b>Data Analysis and Probability</b>	<b>11</b>	<b>5</b>	<b>0</b>	<b>6</b>
Represent categorical and numerical data using tables and graphs.	8	2	0	6
Determine the outcomes of simple events.	3	3	0	0
<b>TOTAL</b>	<b>72</b>	<b>56</b>	<b>4</b>	<b>12</b>

Multiple-choice and gridded questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 5 Reading

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Open-Ended Points Possible
Demonstrate reading vocabulary knowledge.	9	9	0
Use strategies to comprehend literary/recreational materials.	18	12	6
Recognize literary elements and devices from various text formats.	18	15	3
Use strategies to comprehend functional and textual/informational materials.	18	15	3
<b>TOTAL</b>	<b>63</b>	<b>51</b>	<b>12</b>

Multiple-choice questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 5 Mathematics

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Gridded Points Possible	Open-Ended Points Possible
Number and Operations	28	19	3	6
Compare, order, round, and expand whole numbers.	4	4	0	0
Solve problems involving basic operations on whole numbers.	6	2	1	3
Solve word problems involving decimals, fractions, or money.	9	6	0	3
Add and subtract fractions with common and uncommon denominators.	6	4	2	0
Identify numbers less than zero.	3	3	0	0
Algebra	8	8	0	0
Demonstrate commutative, associative, and identity properties of addition and multiplication of whole numbers.	4	4	0	0
Write number sentences for a problem expressed in words.	4	4	0	0
Geometry	7	7	0	0
Identify regular polygons and congruent polygons.	3	3	0	0
Identify components of the Cartesian plane and identify the center, radius, and diameter of a circle.	4	4	0	0
Measurement	10	8	2	0
Estimate perimeter and area of irregular shapes.	3	3	0	0
Calculate the perimeter of rectangles.	3	2	1	0
Convert units of measurement within the same system (customary or metric).	4	3	1	0
Data Analysis and Probability	10	3	1	6
Analyze data from a survey or experiment.	6	0	0	6
Use fractions to represent the probability of events.	4	3	1	0
<b>TOTAL</b>	<b>63</b>	<b>45</b>	<b>6</b>	<b>12</b>

Multiple-choice and gridded questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 6 Reading

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Open-Ended Points Possible
Apply strategies to comprehend literary/recreational materials.	17	14	3
Interpret literary elements and devices.	14	11	3
Apply strategies to comprehend textual/informational and functional materials.	15	12	3
Recognize text elements in textual/informational and functional materials.	15	12	3
<b>TOTAL</b>	<b>61</b>	<b>49</b>	<b>12</b>

Multiple-choice questions are one point each. Open-ended questions are three points each.



*Alabama Reading and Mathematics Test*  
Grade 6 Mathematics

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Gridded Points Possible	Open-Ended Points Possible
<b>Number and Operations</b>	<b>21</b>	<b>14</b>	<b>1</b>	<b>6</b>
Demonstrate computational fluency with addition, subtraction, multiplication, and division of decimals and fractions.	9	9	0	0
Solve problems involving decimals, percents, fractions, and proportions.	12	5	1	6
<b>Algebra</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>0</b>
Solve problems using numeric and geometric patterns.	5	3	2	0
<b>Geometry</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>
Identify two-dimensional and three-dimensional figures based on attributes, properties, and component parts.	5	5	0	0
Plot coordinates on grids, graphs, and maps.	4	4	0	0
<b>Measurement</b>	<b>18</b>	<b>13</b>	<b>2</b>	<b>3</b>
Classify angles as acute, obtuse, right, or straight.	4	4	0	0
Solve problems involving perimeter and area of parallelograms and rectangles.	6	2	1	3
Determine the distance between two points on a scale drawing or a map using proportional reasoning.	4	3	1	0
Convert units of length, weight, or capacity within the same system (customary or metric).	4	4	0	0
<b>Data Analysis and Probability</b>	<b>10</b>	<b>5</b>	<b>2</b>	<b>3</b>
Interpret information from bar graphs, line graphs, and circle graphs.	6	2	1	3
Find the probability of a simple event.	4	3	1	0
<b>TOTAL</b>	<b>63</b>	<b>44</b>	<b>7</b>	<b>12</b>

Multiple-choice and gridded questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 7 Reading

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Open-Ended Points Possible
Apply strategies to comprehend literary/recreational materials.	10	10	0
Relate literary elements and devices to each other.	15	12	3
Distinguish among literary genres and sub-genres based on their characteristics.	7	7	0
Apply strategies to comprehend textual/informational and functional materials.	15	12	3
Recognize the use of text elements from various text formats.	16	10	6
<b>TOTAL</b>	<b>63</b>	<b>51</b>	<b>12</b>

Multiple-choice questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 7 Mathematics

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Gridded Points Possible	Open-Ended Points Possible
<b>Number and Operations</b>	<b>17</b>	<b>14</b>	<b>3</b>	<b>0</b>
Demonstrate computational fluency with addition, subtraction, and multiplication of integers.	5	3	2	0
Use order of operations to evaluate numerical expressions.	4	3	1	0
Solve problems requiring the use of operations on rational numbers.	8	8	0	0
<b>Algebra</b>	<b>12</b>	<b>12</b>	<b>0</b>	<b>0</b>
Express a pattern shown in a table, graph, or chart as an algebraic equation.	4	4	0	0
Translate verbal phrases into algebraic expressions and algebraic expressions into verbal phrases.	4	4	0	0
Solve one- and two-step equations.	4	4	0	0
<b>Geometry</b>	<b>10</b>	<b>7</b>	<b>0</b>	<b>3</b>
Determine the transformation(s) used to alter the position of a polygon on the coordinate plane.	4	4	0	0
Recognize geometric relationships among two-dimensional and three-dimensional objects.	6	3	0	3
<b>Measurement</b>	<b>14</b>	<b>9</b>	<b>2</b>	<b>3</b>
Solve problems involving circumference and area of circles.	4	3	1	0
Find the perimeter of polygons and the area of triangles and trapezoids.	4	3	1	0
Solve problems using proportional reasoning.	6	3	0	3
<b>Data Analysis and Probability</b>	<b>13</b>	<b>4</b>	<b>3</b>	<b>6</b>
Determine measures of central tendency.	7	2	2	3
Determine the probability of a compound event.	6	2	1	3
<b>TOTAL</b>	<b>66</b>	<b>46</b>	<b>8</b>	<b>12</b>

Multiple-choice and gridded questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 8 Reading

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Open-Ended Points Possible
Apply strategies to comprehend literary/recreational materials.	19	16	3
Evaluate the impact of setting, mood, and/or characterization on theme.	18	15	3
Distinguish among subcategories of poetry based on their characteristics.	7	7	0
Apply strategies to comprehend textual/informational and functional materials.	22	16	6
<b>TOTAL</b>	<b>66</b>	<b>54</b>	<b>12</b>

Multiple-choice questions are one point each. Open-ended questions are three points each.

*Alabama Reading and Mathematics Test*  
Grade 8 Mathematics

Content Standards	Total Points Possible	Multiple-Choice Points Possible	Gridded Points Possible	Open-Ended Points Possible
<b>Number and Operations</b>	<b>15</b>	<b>13</b>	<b>2</b>	<b>0</b>
Use various strategies and operations to solve problems involving real numbers.	7	6	1	0
Simplify expressions containing natural number exponents.	4	4	0	0
Use order of operations to evaluate and simplify algebraic expressions.	4	3	1	0
<b>Algebra</b>	<b>17</b>	<b>8</b>	<b>3</b>	<b>6</b>
Graph linear relations by plotting points or by using the slope and y-intercept.	9	3	0	6
Solve problems involving linear functions.	4	3	1	0
Solve multi-step linear equations.	4	2	2	0
<b>Geometry</b>	<b>10</b>	<b>6</b>	<b>1</b>	<b>3</b>
Solve problems using the Pythagorean Theorem.	6	2	1	3
Compare quadrilaterals, triangles, and solids.	4	4	0	0
<b>Measurement</b>	<b>18</b>	<b>12</b>	<b>3</b>	<b>3</b>
Determine the measures of special angle pairs.	4	3	1	0
Find the perimeter and area of regular and irregular plane figures.	4	3	1	0
Determine the surface area and volume of rectangular prisms, cylinders, and pyramids.	6	3	0	3
Determine the lengths of missing sides and measures of angles in similar and congruent figures.	4	3	1	0
<b>Data Analysis and Probability</b>	<b>10</b>	<b>6</b>	<b>1</b>	<b>3</b>
Interpret data from populations.	6	3	0	3
Determine the theoretical probability of an event.	4	3	1	0
<b>TOTAL</b>	<b>70</b>	<b>45</b>	<b>10</b>	<b>15</b>

Multiple-choice and gridded questions are one point each. Open-ended questions are three points each.