Mississippi Assessment Program
(MAP)

4th Grade Mathematics

Performance Task: The Mathematics, Grade 4 End-of-Course performance task will give students the opportunity to demonstrate their knowledge, precision, interpretation skills, and conceptual understanding in a measurable format related to creating and analyzing to model real world problems. This performance task will yield a tangible product (e.g., graphic display) and a series of written arguments that will measure the student's proficiency level from the Mathematics, Grade 4 content standards. The performance task for 4th grade will involve 4.MD.5, 4.MD.6, 4.MD.7, and 4.G.1 (Measurement and Data and Geometry) one question worth 9 points.

Closed-Ended Items: Multiple Choice Static (MC) and Multiple Choice Select (MCMS)

Multiple –choice items are an efficient way to assess knowledge and skills, and they can be developed to measure each of the cognitive targets. In a well-designed multiple choice item, the stem clearly presents the question to the student. The stem may be in the form of a question, phrase, or an expression, as long as it conveys what is expected of the student. The stem is followed by four (or more for multi-select) answer choices, or options, only one of which is correct. For multi-select there are multiple keys in the options. A closed item with a single interaction is worth one point.

Open-Ended Items:

- Multi-select table
- Multiple-choice
- Select Text
- Drag and Drop (DD)
- Matching
- Two-Part (Two part items consist of two standards response items. The student answers part 1 first and then answers part 2, which is support or evidence for Part 1.
- **An open-ended, multiple choice item with a Part A and a Part B requires students to complete two interactions with the item (choosing an answer to Part A and choosing another answer for Part B) is worth two points.**
- **An open-ended, technology enhanced item that asks students to drag and drop responses into a table and requires students to complete multiple interactions in the item is worth two points. Partial credit is available for all two-point items.**

Performance Task

Standard	Performance Task PT	Closed Ended	Open Ended	Total # Items	Total # Points
Angle Measurement	**1**	**0**	**0**	**1**	**9**
4.MD.5 Recognize angles as geometric shapes that are formed whenever two rays share a common endpoint, and understand concepts of angle measurement: **A)** An angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through 1/360 of a circle is called a "one degree angle," and can be used to measure angles. **B)** An angle that turns through n one degree angles is said to have an angle measure of n degrees. **4. MD.6** Measure angles in whole number degrees using a protractor. Sketch angles of specified measure. **4. MD.7** Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure. **4. G.1** Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	**1**	**0**	**0**	**1**	**9**

*The 4th Grade Performance Task (Angle Measurement), five of the standards shall be used in the one performance task. The performance task is worth nine points towards the overall math score.

Standard	Multiple Point Questions	Total # Items	Total # Points	% Points
Operations and Algebraic Thinking (OA)	0	10	10	10/57 (17%)
Number and Operations in Base Ten (NBT)	1	11	12	12/57 (21%)
Number and Operations Fractions (NF)	1	12	13	13/57 (23%)
Measurement and Data (MD)	0	9	9	9/57 (16%)
Geometry (G)	0	4	4	4/57 (7%)
4.MD.5, 4.MD.6, 4.MD.7, 4.G.1	1	1	9	9/57 (16%)
Total	3 Multiple Point Questions 2 (two point questions) 1 Performance Task worth 9 points	47 total questions 44 (one point questions)	57 total points possible	57 total points possible