Practice Test Answer and Alignment Document

Mathematics – Grade 4

Part A

Item Number	Answer Key	Kentucky Academic Standard	Mathematical Practices
1.	**A**	KY.4.NBT.2.a	MP.7
2.	**C**	KY.4.NF.6	MP.4, MP.7
3.	See rubric	KY.4.NF.3.d	MP.1, MP.2
4.	**B**	KY.4.NF.1.a	MP.7
5.	**D**	KY.4.NBT.2.a	MP.7
6.	**B, C**	KY.4.OA.5	MP.2

Part B

Item Number	Answer Key	Kentucky Academic Standard	Mathematical Practices
1.	**B**	KY.4.MD.1.c	MP.6, MP.8
2.	**B**	KY.4.G.3.a	MP.7
3.	**D**	KY.4.OA.1	MP.2
4.	See rubric	KY.4.MD.7	MP.1, MP.5, MP.7
5.	**D**	KY.4.G.1	MP.5, MP.6

Rubrics

Part A #3	
Rubric	
Score Point 2	Student demonstrates a complete understanding of solving word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.
Score Point 1	Student demonstrates a partial understanding of solving word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.
Score Point 0	Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task.

Score Points	• Score 2 points:
	    ○ Correct equation and correct answer.
	• Score 1 point:
	    ○ Correct equation but missing or incorrect answer. **OR**
	    ○ Incorrect or missing equation but a correct answer. **OR**
	    ○ Valid answer based on solving an incorrect equation.

Correct Answer	Equation: $\frac{8}{12} + \frac{4}{12} - \frac{10}{12} = ?$ The total amount of water at the end of the day Tuesday is $\frac{2}{12}$.

Part B #4	
Rubric	
Score Point 4	Student demonstrates a complete understanding of solving addition and subtraction problems to find unknown angles on a diagram in a mathematical problem.
Score Point 3	Student scores 3 points.
Score Point 2	Student scores 2 points.
Score Point 1	Student demonstrates a minimal understanding of solving addition and subtraction problems to find unknown angles on a diagram in a mathematical problem.
Score Point 0	Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task.

Score Points	**Part A**
	• Score 2 points:
	    ○ Correct answer with correct and complete work or explanation.
	• Score 1 point:
	    ○ Correct answer with correct and partial work or explanation. **OR**
	    ○ Correct answer with no work or explanation. **OR**
	    ○ Incorrect answer due to a calculation error (work must be shown).
	Part B
	• Score 2 points:
	    ○ Correct answer with correct and complete work or explanation.
	• Score 1 point:
	    ○ Correct answer with correct and partial work or explanation. **OR**
	    ○ Correct answer with no work or explanation. **OR**
	    ○ Incorrect answer due to a calculation error (work must be shown).

Correct Answer	**Part A** The measurements for angles 1 and 3 are the same, and angle 2 measures 110°. $180 - 110 = 70$ $70 \div 2 = 35$ $110 + 35 = 145$ The sum of the measures of angles 1 and 2 is 145°. **Part B** I know that angle 4 and angle 5 add up to 90° because a rectangle has four right angles. $90 - 35 = 55$ The measure of angle 4 is 55°.