

Practice Test Answer and Alignment Document

Mathematics - Grade 8

Part A

Item Number	Answer Key	Kentucky Academic Standard	Mathematical Practices
1.	D	KY.8.NS.1	MP.7
2.	B, D	KY.8.F.1	MP.6, MP.7, MP.8
3.	0 1 2 3 4 5 6	KY.8.NS.2	MP.7
4.	В, Е	KY.8.G.1	MP.6

Part B

Item Number	Answer Key	Kentucky Academic Standard	Mathematical Practices
1.	4.2×10^4 Or equivalent expressions written in scientific notation.	KY.8.EE.4	MP.5, MP.7, MP.8
2.	A	KY.8.F.5.b	MP.7
3.	Two Balloon Stores (srellop) tso Jero Jero Jero Jero Jero Jero Jero Jer	KY.8.EE.8.c	MP.1, MP.3, MP.4
4.	The relationship between the variables shows a positive , nonlinear association and has 0 outliers.	KY.8.SP.1	MP.2, MP.7
5.	See rubric	KY.8.G.9	MP.1, MP.6, MP.7
6.	63.08 or equivalent numbers	KY.8.SP.3	MP.2

Rubrics

Part B #3				
Rubric				
The total item score is the sum of points awarded in the Machine-scored and Human-scored parts.				
Machine Scoring				
Score Point 1	Part A Student response is two lines $C = 2.5b + 70$ and $C = 5b + 60$ graphed with a solution of (4, 80) selected.			
Score Point 0	Student response is incorrect.			
Human Scoring				
Score Point 3	Student scores a total of 3 points.			
Score Point 2	Student scores a total of 2 points.			
Score Point 1	Student demonstrates a minimal understanding of solving a real-world problem leading to two linear equations in two variables.			
Score Point 0	Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task.			
Score Points	Score 3 points: Correct solution with all work shown algebraically and a complete explanation of the solution in terms of the context. Score 2 points: Correct solution with partial work shown algebraically and a complete explanation of the solution in terms of the context. OR Correct solution with minimal work shown algebraically and a complete explanation of the solution in terms of the context. Score 1 point: Correct solution with no work shown and a complete explanation of the solution in terms of the context. OR Complete explanation of the solution in terms of the context based on the graph in Part A. OR Correct solution with no work shown and a partial explanation of the solution.			
Correct Answer	Part B $2.5b + 70 = 5b + 60$ $10 = 2.5b$ $\frac{10}{2.5} = b$			

Part B #5			
Rubric			
Score Point 2	Student demonstrates a complete understanding of applying the formula for the volume of a cylinder and using it to solve a real world problem.		
Score Point 1	Student demonstrates a partial understanding of applying the formula for the volume of a cylinder and using it to solve a real-world problem.		
Score Point 0	Student response is completely incorrect or irrelevant.		
Score Points	 Score 2 points: Correct answer, including units, with all work or explanation provided. Score 1 point: Correct answer, not including units, with all work or explanation provided. OR Correct answer, including units, with partial work or explanation provided. OR Correct answer, not including units, with partial work or explanation provided. OR Work or explanation provided shows a partial understanding of how to apply the formula in a real-world problem. 		
Correct Answer	$26-1=25$ $V=\pi\times8^2\times25\cong5026.55$ $\frac{3}{4}\times5026.55\cong3769.99$ $\frac{3770}{5}=628\frac{1}{3}$ There was an average of $628\frac{1}{3}$ cubic inches of water used per hour. Note: Answers between, and including, 628 and 629 are acceptable.		