



Practice Test Answer and Alignment Document
Mathematics – Grade 7

Part A

Item Number	Answer Key	Kentucky Academic Standard	Mathematical Practices
1.	C	KY.7.NS.1.d	MP.2, MP.7
2.	See rubric	KY.7.RP.2	MP.1, MP.2
3.	A	KY.7.EE.1	MP.7
4.	C	KY.7.NS.2.c	MP.6, MP.7

Part B

Item Number	Answer Key	Kentucky Academic Standard	Mathematical Practices
1.	B, E	KY.7.RP.2.d	MP.1, MP.2
2.	C	KY.7.G.6.a	MP.5
3.	A	KY.7.SP.2.c	MP.2
4.	A	KY.7.EE.4.b	MP.2, MP.4
5.	See rubric	KY.7.EE.4.b	MP.2, MP.4
6.	C	KY.7.G.4.a	MP.1, MP.2, MP.8

Rubrics

Part A #2	
Rubric	
Score Point 4	Student scores 4 points.
Score Point 3	Student scores 3 points.
Score Point 2	Student scores 2 points.
Score Point 1	Student demonstrates a minimal understanding identifying the constant of proportionality (unit rate) in a graph and verbal description of a proportional relationship.
Score Point 0	Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task.
Score Points	<p>Part A</p> <ul style="list-style-type: none"> • Score 2 points: <ul style="list-style-type: none"> ○ Valid ordered pairs and correct constant of proportionality. • Score 1 point: <ul style="list-style-type: none"> ○ Valid ordered pairs OR ○ Correct constant of proportionality. <p>Part B</p> <ul style="list-style-type: none"> • Score 2 points: <ul style="list-style-type: none"> ○ Correct answer with complete work shown or explanation using answers in Part A. OR ○ Incorrect reasonable answers based on incorrect answers in Part A with complete work shown or explanations provided. • Score 1 point: <ul style="list-style-type: none"> ○ Correct answer with no work shown or explanation provided. OR ○ Incorrect reasonable answers based on incorrect answers in Part A with no work shown or explanations provided.
Correct Answer	<p>Part A I identified (2, 10) and (6, 30) to represent the relationship between time, x, and the total amount of water, y, in the pool. The constant of proportionality is 5 gallons of water per minute.</p> <p>Note: Other reasonable explanations are acceptable.</p> <p>Part B The total amount of water in the pool after 47 minutes is 235 gallons.</p> $\frac{10}{2} = \frac{y}{47}$

Part B #5

Rubric

Score Point 4	Student scores 4 points.
Score Point 3	Student scores 3 points.
Score Point 2	Student scores 2 points.
Score Point 1	Student demonstrates a minimal understanding of solving a word problem leading to an inequality of the form $px + q \leq r$, graphing the solution set, and interpreting it in terms of the context.
Score Point 0	Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task.
Score Points	<p>Part A</p> <ul style="list-style-type: none"> • Score 2 points: <ul style="list-style-type: none"> ○ Correct inequality and the correct solution with complete work shown. • Score 1 point: <ul style="list-style-type: none"> ○ Correct inequality and the correct solution with partial or no work shown. OR ○ Correct inequality with an incorrect solution and complete work shown. OR <p>Part B</p> <ul style="list-style-type: none"> • Score 2 points: <ul style="list-style-type: none"> ○ Correct description and correct answer. • Score 1 point: <ul style="list-style-type: none"> ○ Correct description OR ○ Correct answer.
Correct Answer	<p>Part A</p> $24n + 144 \leq 300$ $24n \leq 156$ $n \leq 6.5$ <p>Part B</p> <p>The number line will have a closed circle at 4 with a line and arrow pointing to the left towards 0. Chris can play 4 games or any whole number of games less than 4.</p> <p>Note: Other reasonable explanations acceptable.</p>