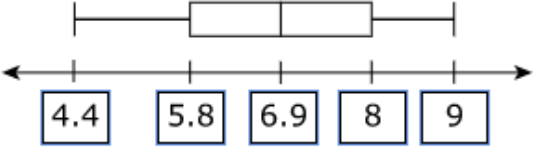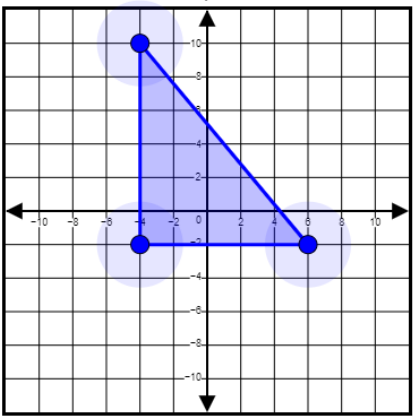Practice Test Answer and Alignment Document
# Mathematics – Grade 6

## Part A

| Item Number | Answer Key | Kentucky Academic Standard | Mathematical Practices |
|---|---|---|---|
| 1. | **A, B** | KY.6.EE.5 | MP.8 |
| 2. |  | KY.6.NS.6.b | MP.6 |
| 3. | 12 or equivalent number | KY.6.RP.2 | MP.2 |
| 4. | See rubric | KY.6.NS.2 | MP.7, MP.8 |
| 5. | The dots located above the 1 on the number line show that [ 5 students ▾ ] surveyed watched [ 1 hour ▾ ] of television [ each day ▾ ] . | KY.6.SP.5.b | MP.6, MP.7 |

## Part B

| Item Number | Answer Key | Kentucky Academic Standard | Mathematical Practices |
|---|---|---|---|
| 1. | **C** | KY.6.G.4 | MP.6 |
| 2. |  | KY.6.SP.4 | MP.6, MP.7 |
| 3. | **Part A**  **Part B** See rubric | KY.6.G.3 | MP.4, MP.5, MP.6 |
| 4. | **B, D** | KY.6.EE.3 | MP.7 |
| 5. | 5:6 Equivalent ratios are not accepted. | KY.6.RP.1 | MP.6 |

# Rubrics

| Part A #4 | |
|---|---|
| **Rubric** | |
| **Score Point 2** | Student demonstrates a complete understanding of converting a rational number to a decimal and identifying if it is repeating or terminating. |
| **Score Point 1** | Student demonstrates a partial understanding of converting a rational number to a decimal and identifying if it is repeating or terminating. |
| **Score Point 0** | Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task. |
| **Score Points** | <ul><li>Score 2 points:<ul><li>Correct answer and complete explanation that includes the decimal value of $\frac{11}{18}$.</li></ul></li><li>Score 1 point:<ul><li>Correct answer with no or partial explanation **OR**</li><li>Valid work shown using long division.</li></ul></li></ul> |
| **Correct Answer** | The decimal value of $\frac{11}{18}$ is 0.6111 … which is a repeating decimal. This decimal is a repeating decimal because the division does not have a remainder of 0 and continues because it always has the same remainder of 2. |

| 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** <br> Student response is to plot the points (¯4,10), (¯4,¯2), and (6,¯2). | |
| **Score Point 0** | Student response is incorrect. | |
| **Human Scoring** | | |
| **Score Point 1** | Student demonstrates a complete understanding of applying the techniques of drawing a polygon in the coordinate plane given coordinates for the vertices and using the coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate in a mathematical problem. | |
| **Score Point 0** | Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task. | |
| **Score Points** | **Part B** <br> <ul><li>Score 1 point: Human-scored<ul><li>Correct answer with units and a complete explanation or work shown. **OR**</li><li>Correct answer with units a complete explanation based on an incorrect triangle graphed in Part A.</li></ul></li></ul> | |
| **Correct Answer** | **Part B** <br> The base of the triangle is 10 units and the height is 12 units. <br> $A = \frac{1}{2} \times 10 \times 12$ <br> $A = 60$ <br><br> The area of the triangle is 60 square units. | |