

## 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 | $\begin{aligned} & \text { MP.6, MP. } 7, \\ & \text { MP. } 8 \end{aligned}$ |
| 3. |  | KY.8.NS. 2 | MP. 7 |
| 4. | B, E | KY.8.G. 1 | MP. 6 |

Part B

| Item Number | Answer Key | Kentucky Academic Standard | Mathematical Practices |
| :---: | :---: | :---: | :---: |
| 1. | $4.2 \times 10^{4}$ Or equivalent expressions written in scientific notation. | KY.8.EE. 4 | $\begin{aligned} & \text { MP.5, MP.7, } \\ & \text { MP. } 8 \end{aligned}$ |
| 2. | A | KY.8.F.5.b | MP. 7 |
| 3. | Part A <br> Two Balloon Stores <br> Part B <br> See rubric | KY.8.EE.8.c | $\begin{aligned} & \text { MP.1, MP.3, } \\ & \text { MP. } 4 \end{aligned}$ |
| 4. | The relationship between the variables shows a $\square$ positive $\checkmark$, <br> nonlinear association and has $\square$ outliers. | KY.8.SP. 1 | MP.2, MP. 7 |
| 5. | See rubric | KY.8.G.9 | $\begin{aligned} & \text { MP.1, MP.6, } \\ & \text { MP. } 7 \end{aligned}$ |
| 6. | 63.08 or equivalent numbers | KY.8.SP. 3 | MP. 2 |

## Rubrics



## 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 realworld 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 realworld 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. <br> - 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 | $\begin{aligned} & 26-1=25 \\ & V=\pi \times 8^{2} \times 25 \cong 5026.55 \\ & \frac{3}{4} \times 5026.55 \cong 3769.99 \\ & \frac{3770}{5}=628 \frac{1}{3} \end{aligned}$ <br> There was an average of $628 \frac{1}{3}$ cubic inches of water used per hour. <br> Note: Answers between, and including, 628 and 629 are acceptable. |

