**Math 8**

**Spring Student Enrichment Packet**



***ANSWER KEY***

PRINCE GEORGE’S COUNTY PUBLIC SCHOOLS

Office of Academic Programs

Department of Curriculum and Instruction

**™**

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**Answer Key**

|  |  |
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| **Problem** | **Answer** |
| 1 | $6^{(8-4)}$**,** $\frac{6^{8}}{6^{4}}$ |
| 2 |  |
| 3 | A, E |
| 4 |  |
| 5 | 3.9 |
| 6 | A |
| 7 | 5.616 x 106 |
| 8 | B |
| 9 | B, E |
| 10 Part A | 7,430,000 square miles |
|  Part B | Karen is incorrect because while 7.41 is largest factor in the Land Area column, that factor is only multiplied by 105 while other factors in the column are multiplied by 106. Multiplying by that greater power of 10 means that the United States, with 3,720,000 square miles, has the largest land area. |
| 11 | The larger planted would have a diameter of 40 x 2 or 80 cm. The formula to determine the volume of a cylinder is $V=πr^{2}h$. The radius of the larger planter would be 40. So its volume would be $π(40)^{2}×100$, or $160,000π$ cubic cm. In using 3.14 for pi, the volume would be 502,400 cm3 |
| 12. | A |
| 13.  | D |
| 14.  | 20,000 |
| 15. | C |