**Lesson 7 Problem-Solving Practice**

***Solving Proportions***

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| **1.** Donna is planning to run a 13.1-mile half marathon. She tells of her plans to her European friend, who asks how many meters she will run. There are approximately 1609 meters in 1 mile. Write and solve proportion that could be used to find the distance of the marathon in meters.  | **2.** The Tyler Municipal Rose Garden and Center in Tyler, Texas, is the nation’s largest rose garden. It contains 38,000 rose bushes representing 500 varieties of roses set in a 14-acre park. Write and solve proportion that could be used to find the average number of rose bushes per acre. |
| **3.** Ohio is the home of two of the world’s largest aluminum smelters, in which metal is separated for recycling. Together, these two facilities process an average of 15 million pounds of aluminum each month. How many pounds of aluminum do the Ohio smelting plants average per week? | **4.** Elton just bought a new flash drive for his computer. He read in the literature that 7 flash drives can hold 1792 megabytes of data. Write and solve a proportion to find the number of megabytes of data that 5 flash drives can hold. |
| **5.** Ashley is planning breakfast for a family event. She wants to serve Deltan Waffles. She found this recipe, which serves 8 people.

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| **Deltan Waffles** |
| 1$\frac{3}{4}$ cups flour$\frac{1}{2}$ teaspoon salt1 tablespoon baking  powder2 egg yolks | 1$\frac{1}{4}$ cups milk$\frac{1}{2}$ cup shortening, melted2 eggs white |

How much salt does Ashley need if she uses 3 eggs? | **6.** Refer to the recipe in Exercise 5. How much baking powder does Ashley need if she wants to serve 12 people? |