## SEMESTER REVIEW: System of Equations Word Problems

Name:

Period:

**Directions:** Answer the questions to each question. **Show all work.** 

- 1. Debbie owns a local flower shop. Last year during Valentine's Day, they sold 32 large rose bouquets and 24 small rose bouquets. They earned \$1,720. This year they plan on selling 45 large bouquets and 30 small bouquets and making \$2,325.
  - a. Write a system of equations that represent this situation. (Identify the variables.)

b. What is the price of each bouquet? Show all work.

c. How much more money would Debbie get if they charge \$5 more for the small rose bouquet? Show all work.

d. **How much more money** would Debbie get if they charge \$5 more for the large rose bouquet? **Show** all work.

- 2. At a wrestling match, a school charged \$10 for adults and \$5 for children 12 and under. There were 350 people that watched the event. The school earned \$2,680.
  - a. Write a system of equations that represent this situation. (Identify the variables.)

b. How many of adults and children attended the wrestling match? Show all work.

c. **How much more money** would the school get if they charge the \$10 for both adults and children 12 and under? **Show all work.** 

d. How much more money would the school get if they charge the \$15 for adults? Show all work.

- 3. At the Happy Grillmore restaurant last night, they had 2 dinner specials: smoked salmon for \$18.99 and the ribeye steak for \$21.99. They sold 24 specials, making \$497.76.
  - a. Write a system of equations that represent this situation. (Identify the variables.)

b. How many of each special did they sell? Show all work.

c. How much more money would the restaurant get if they charge the \$21.99 for both specials? Show all work.

d. **How much more money** would the restaurant get if they charge the \$24.99 for the ribeye steak dinner? **Show all work.** 

- 4. At the Brewed Awaking, large lattes cost \$4.50 and small lattes cost \$3.00. Yesterday, they sold 123 lattes and made \$483.
  - a. Write a system of equations that represent this situation. (Identify the variables.)

b. How many of each latte did they sell? Show all work.

c. How much more money would the restaurant get if they charge \$5 for a large latte? Show all work.

d. **How much more money** would the restaurant get if they charge the \$3.50 for the small latte? **Show** all work.