Name_____

Systems of Equations Word Problems #2

Date_____ Period_____

1) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 2 vans and 8 buses with 414 students. High School B rented and filled 14 vans and 6 buses with 448 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

2) A boat traveled 110 miles downstream and back. The trip downstream took 5 hours. The trip back took 55 hours. Find the speed of the boat in still water and the speed of the current.

3) Beth's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 5 adult tickets and 4 child tickets for a total of $73. The school took in $149 on the second day by selling 1 adult ticket and 12 child tickets. Find the price of an adult ticket and the price of a child ticket.

4) Alberto and Jill are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Alberto sold 11 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of $265. Jill sold 6 rolls of plain wrapping paper and 9 rolls of shiny wrapping paper for a total of $228. Find the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper.

5) A plane traveled 864 miles to Los Angeles and back. The trip there was with the wind. It took 9 hours. The trip back was into the wind. The trip back took 12 hours. What is the speed of the plane in still air? What is the speed of the wind?

6) Ming and Kristin are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and apple cheesecakes. Ming sold 14 French silk cheesecakes and 8 apple cheesecakes for a total of $192. Kristin sold 10 French silk cheesecakes and 10 apple cheesecakes for a total of $210. What is the cost each of one French silk cheesecake and one apple cheesecake?

Name_____

ID: 1

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1) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 2 vans and 8 buses with 414 students. High School B rented and filled 14 vans and 6 buses with 448 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

   Van: 11, Bus: 49

2) A boat traveled 110 miles downstream and back. The trip downstream took 5 hours. The trip back took 55 hours. Find the speed of the boat in still water and the speed of the current.

   boat: 12 mph, current: 10 mph

3) Beth's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 5 adult tickets and 4 child tickets for a total of $73. The school took in $149 on the second day by selling 1 adult ticket and 12 child tickets. Find the price of an adult ticket and the price of a child ticket.

   adult ticket: $5, child ticket: $12

4) Alberto and Jill are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Alberto sold 11 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of $265. Jill sold 6 rolls of plain wrapping paper and 9 rolls of shiny wrapping paper for a total of $228. Find the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper.

roll of plain wrapping paper: $11, roll of shiny wrapping paper: $18

5) A plane traveled 864 miles to Los Angeles and back. The trip there was with the wind. It took 9 hours. The trip back was into the wind. The trip back took 12 hours. What is the speed of the plane in still air? What is the speed of the wind?

plane: 84 mph, wind: 12 mph

6) Ming and Kristin are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and apple cheesecakes. Ming sold 14 French silk cheesecakes and 8 apple cheesecakes for a total of $192. Kristin sold 10 French silk cheesecakes and 10 apple cheesecakes for a total of $210. What is the cost each of one French silk cheesecake and one apple cheesecake?

French silk cheesecake: $4, apple cheesecake: $17