Date

1) Find the value of two numbers if their sum is 12 and their difference is 4.

2) Ming and Aliyah are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Ming sold 1 roll of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$100. Aliyah sold 2 rolls of plain wrapping paper and 5 rolls of holiday wrapping paper for a total of \$110. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.

3) Paul and Joe are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Paul sold 5 rolls of plain wrapping paper and 7 rolls of holiday wrapping paper for a total of \$182. Joe sold 2 rolls of plain wrapping paper and 7 rolls of holiday wrapping paper for a total of \$140. Find the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper.

4) Kayla and Scott are selling pies for a school fundraiser. Customers can buy blueberry pies and blackberry pies. Kayla sold 3 blueberry pies and 5 blackberry pies for a total of \$118. Scott sold 3 blueberry pies and 7 blackberry pies for a total of \$152. What is the cost each of one blueberry pie and one blackberry pie? 5) The difference of two numbers is 1. Their sum is 11. Find the numbers.

6) Traveling with the current a certain boat went 13 km/h. Against the same current it only went 3 km/h. Find the current and the speed of the boat if there were no current.

7) The school that Krystal goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 2 adult tickets and 2 student tickets for a total of \$34. The school took in \$88 on the second day by selling 8 adult tickets and 2 student tickets. Find the price of an adult ticket and the price of a student ticket.

8) Traveling downstream a certain boat went 14 mph. Traveling upstream it only went 2 mph. Find the current and the speed of the boat if there were no current.

## Answers to

5) 5 and 6

- 1) 4 and 8
- 2) roll of plain wrapping paper: \$10, roll of holiday wrapping paper: \$18
- 3) roll of plain wrapping paper: \$14, roll of holiday wrapping paper: \$16
- 4) blueberry pie: \$11, blackberry pie: \$17
- 6) Boat: 8 km/h, Current: 5 km/h

7) adult ticket: \$9, student ticket: \$8

8) Boat: 8 mph, Current: 6 mph