

Name: .....

Date: ..... Score: .....

## System of Linear Equations Word Problems Worksheet

- ① A boat traveled 336 miles downstream and back. The trip downstream took 12 hours. The trip back took 14 hours. Find the speed of the boat in still water. What is the speed of the current?
  
- ② Michael bought 2 umbrellas and 3 pairs of shoes for \$5.13. He then bought another umbrella and another 2 pairs of shoes for \$3.09. Find the cost of each umbrella and each pair of shoes.
  
- ③ The denominator of a fraction is 4 more than twice the numerator. If the numerator and denominator are decreased by 6, then the denominator becomes 12 times the numerator. Determine the fraction.
  
- ④ The difference of two numbers is 3. Their sum is 13. Find the numbers.
  
- ⑤ Find the value of two numbers if their sum is 16 and their difference is 6.

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### Answers

- ① A boat traveled 336 miles downstream and back. The trip downstream took 12 hours. The trip back took 14 hours. Find the speed of the boat in still water. What is the speed of the current?

Speed of the boat in still water = 26 miles/hr,  
Speed of the current = 2 miles/hr

- ② Michael bought 2 umbrellas and 3 pairs of shoes for \$5.13. He then bought another umbrella and another 2 pairs of shoes for \$3.09. Find the cost of each umbrella and each pair of shoes.

\$.99 for an umbrella,  
\$1.05 for one pair of shoes

- ③ The denominator of a fraction is 4 more than twice the numerator. If the numerator and denominator are decreased by 6, then the denominator becomes 12 times the numerator. Determine the fraction.

$\frac{7}{18}$

- ④ The difference of two numbers is 3. Their sum is 13. Find the numbers.

8, 5

- ⑤ Find the value of two numbers if their sum is 16 and their difference is 6.

11, 5