

Name : _____

Score : _____ Date : _____

Solving Systems of Equations Word Problems

- 1 Two bicycle riders start from the same point and ride in opposite directions. One rider is moving twice as fast as the other. After 3 hours, they are 72 miles apart. Find the speed of each rider.

- 2 It takes 3 hours for a boat to go 18 miles downstream and 9 hours to return. What is the rate of the boat in still water and the rate of the current?

- 3 The sum of two numbers is 45. One number is 4 times the other. Find the numbers.

- 4 One number added to 3 times another number is 24. 5 times the first number added to 3 times the other number is 36. Find the numbers.

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Solving Systems of Equations Word Problems

- 1 Two bicycle riders start from the same point and ride in opposite directions. One rider is moving twice as fast as the other. After 3 hours, they are 72 miles apart. Find the speed of each rider.

8 mph , 16 mph

- 2 It takes 3 hours for a boat to go 18 miles downstream and 9 hours to return. What is the rate of the boat in still water and the rate of the current?

Rate of boat in calm water = 4 mph

Rate of the current = 2 mph

- 3 The sum of two numbers is 45. One number is 4 times the other. Find the numbers.

9 , 36

- 4 One number added to 3 times another number is 24. 5 times the first number added to 3 times the other number is 36. Find the numbers.

3 , 7