

Name : _____

Systems of Equations Word Problems

- 1 The sum of the digits of a certain two-digit number is 6. Reversing its digits increases the number by 18. What is the number?

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

- 3 A boat travelled 300 miles downstream and back. The trip downstream took 12 hours. The trip back took 72 hours. Find the speed of the boat in still water.

- 4 Two joggers start from opposite ends of an 8 mile course running towards each other. One jogger is running at a rate of 4 mph. The other is running at a rate of 6 mph. After how many minutes will the joggers meet?

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Systems of Equations Word Problems

Answers

- 1 The sum of the digits of a certain two-digit number is 6. Reversing its digits increases the number by 18. What is the number?

Ans: 42

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

Ans: 8, 5

- 3 A boat travelled 300 miles downstream and back. The trip downstream took 12 hours. The trip back took 72 hours. Find the speed of the boat in still water.

Ans: 14.583 miles/hour

- 4 Two joggers start from opposite ends of an 8 mile course running towards each other. One jogger is running at a rate of 4 mph. The other is running at a rate of 6 mph. After how many minutes will the joggers meet?

Ans: 0.8 hours