

Systems of Linear Equations Word Problems Worksheet

- 1 A man is 3 times older than his son now. He will be twice older than his son in 8 years. How old are each now?

- 2 The sum of the digits of a certain two-digit number is 7. Reversing the digits increases the number by 9. What is the number?

- 3 Eleven times one number is 9 more than 8 times another number. The first number minus 4 is half the second number. Find the two numbers.

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

- 5 There are 200 people attending a marriage ceremony. There are 10 less men than there are women. Create a system of linear equations to determine the number of men and women and solve.

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Answers

- 1 A man is 3 times older than his son now. He will be twice older than his son in 8 years. How old are each now?

Boy = 8 years
Man = 24 years

- 2 The sum of the digits of a certain two-digit number is 7. Reversing the digits increases the number by 9. What is the number?

34

- 3 Eleven times one number is 9 more than 8 times another number. The first number minus 4 is half the second number. Find the two numbers.

11, 14

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

8 miles/hour
16 miles/hour

- 5 There are 200 people attending a marriage ceremony. There are 10 less men than there are women. Create a system of linear equations to determine the number of men and women and solve.

Number of men = 95
Number of women = 105
