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## Linear Equations In Two Variables Worksheets

Solve the following systems of equations in questions 1-5:

1)  $x + 2y = 12$

$3x + 4y = 4$

2)  $x + y = 10$

$x - y = 20$

3)  $2x + y = 15$

$x - y = 45$

4)  $4x + 3y = 32$

$2x - 7y = -18$

5)  $0.4x - 0.7y = -13$

$0.6x + 0.7y = 33$

6) Find the sum of  $x$  and  $y$  for the following system:

$2x + 5y = 6xy$

$4x - 5y = -3xy$

7) The difference between the digits of a two digit number is 3. If we reverse the digits of the number and multiply it by 4, we obtain 7 times the original number. The number is \_\_\_\_\_

8) A container contains a mixture of 24L milk and 6L water. A second container contains a mixture of 15L milk and 10L water. A certain quantity of mixtures from each of the two containers is put into a third container, so that the third container contains a mixture of 25L milk and 10L water. In litres, how much liquid was taken from the first container?

9) In a fraction, if the numerator is increased by 2 and the denominator is decreased by 3, then the fraction becomes 1. On the other hand, if the numerator is decreased by 2 and the denominator is increased by 3, the fraction becomes  $\frac{3}{8}$ . Find the fraction.

10) Randall breeds chickens and ducks.

Last month, he sold 50 chickens and 30 ducks for \$ 550. This month, he sold 44 chickens and 36 ducks for \$ 532. How much does a chicken cost, and how much does a duck cost?



= \$ \_\_\_\_\_



= \$ \_\_\_\_\_

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in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$x = -20, y = 16$
2)	$x = 15$ $y = -5$
3)	$x = 20$ $y = 25$
4)	$x = 5$ $y = 4$
5)	$x = 20$ $y = 30$
6)	3
7)	36
8)	20L
9)	$8/13$
10)	Chickens = 8 Ducks = 5

## FUN FACT

- 1) Most fields of mathematics and applied mathematics often used linear equations.
- 2) Sir William Rowan Hamilton was the inventor of linear equations in 1843. He was an Irish mathematician. He passed away in 1865.
- 3) Linear equation has a closer relationship with linear algebra. The latter one highlights the linear equation and relationship of variables.

