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## Systems of Equations Worksheets

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

1.  $3x + y = 15$

$x + 2y = 10$

2.  $x + y = 2/3$

$x - y = 1/3$

3.  $2x - 3y = 15$

$3x + 3y = 40$

4.  $3x - y = 29$

$-2x + 5y = -2$

5.  $-2x - 17y = 11$

$4x - 13y = 25$

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

$6x + 5y = 7x + 3y + 1 = 2(x + 6y - 1)$

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

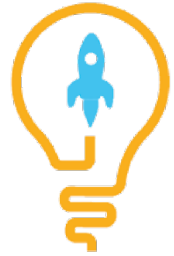
"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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## ANSWERS



|     |                           |
|-----|---------------------------|
| 1.  | $x=4, y=3$                |
| 2.  | $x=1/2$<br>$y=1/6$        |
| 3.  | $x=11$<br>$y=7/3$         |
| 4.  | $x=11$<br>$y=4$           |
| 5.  | $x=3$<br>$y=-1$           |
| 6.  | 5                         |
| 7.  | 36                        |
| 8.  | 20L                       |
| 9.  | $8/13$                    |
| 10. | Chickens = 8<br>Ducks = 5 |