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## System of Equations Worksheet

For questions (1-5), solve the following system of equations:

1.  $6e + 5f = 39$   
 $2e + 3f = 17$

2.  $3n - 2m = 2$   
 $-3n + 5m = 13$

3.  $8u - 5v = 23$   
 $-8u + 9v = 19$

4.  $2y - 15x = 9$   
 $-4y - 5x = 17$

5.  $b + 5c - 11 = 0$   
 $2b + 6c - 14 = 0$

6. A two-digit number is obtained by either multiplying the sum of the digits by 8 or then adding 4 or by multiplying the difference of the digits by 13 and then adding 1. Find the number.

7. James sold a mobile phone and an electronic tablet for **\$1050**. He made a profit of 10% on the mobile phone and 25% on the electronic tablet. If he would have sold them for **\$1065**, he would have got a profit of 25% on the mobile phone and a profit of 10% on the electronic tablet. Find the cost of each.

8. The larger of two complementary angles exceed the smaller by  $34^\circ$ . Find them.

9. If one equation of a pair of dependent linear equations is  $-3x + 7y = -2$ , which of the following would be the second equation?

- A.  $-3x + 7y = -2$   
B.  $-3x + 7y = -2$   
C.  $-3x + 7y = -2$   
D.  $-3x + 7y = -2$

10. The difference between two numbers is 15. If the greater number is three more than twice the first number, find the two numbers.



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- 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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