

SYSTEMS - NUMBER PROBLEMS

1. The sum of two numbers is 24. The first number is 4 more than the second. What are the numbers? $x + y = 24$, $x = y + 4$
2. The sum of two numbers is 16. One number is 6 more than the second. What are the two numbers? $x + y = 16$, $x = y + 6$
3. The difference between two numbers is 20. One number is 2 more than the second. What are the two numbers? $x - y = 20$, $x = y + 2$
4. The difference between two numbers is 60. The larger number is 8 more than the second. What are the two numbers? $x - y = 60$, $x = y + 8$
5. The sum of two numbers is 28. The first number is 6 less than the second number. What are the two numbers? $x + y = 28$, $x = y - 6$
6. The difference between two numbers is 40. One number is 12 less than the second. What are the two numbers? $x - y = 40$, $x = y - 12$
7. The sum of two numbers is 32. Three times the larger number is 4 more than 6 times the smaller number. What are the two numbers? $x + y = 32$, $3x = 6y + 4$
8. The sum of two numbers is 48. Four times the larger is 2 less than 8 times the smaller. What are the two numbers? $x + y = 48$, $4x = 8y - 2$
9. The difference between two numbers is 12. Two times the larger is 4 more than five times the smaller. What are the two numbers? $x - y = 12$, $2x = 5y + 4$
10. Five times one number added to three times a second number yields a sum of 46. Two times the larger added to the smaller yields a sum of -12. What are the two numbers? $5x + 3y = 46$, $2x + y = -12$
11. Two times the larger number decreased by the smaller yields a difference of 24. Four times the smaller added to the larger yields a sum of 64. What are the two numbers? $2x - y = 24$, $4y + x = 64$
12. Five times the sum of two numbers results in a value of 60. Three times the difference of two numbers results in a value of 12. What are the two numbers? $5(x + y) = 60$, $3(x - y) = 12$