

## Solving Systems of Equations

No Calculator

1. What is solution to the system of equations:  $x + 4y = 17$   $x - 3y = 3$  ?
2. What is solution to the system of equations:  $-4x - 3y = -51$   $5x - 3y = 30$  ?
3. What is the x value of the system of equations:  $-4x - 5y = -19$   $-2x + 4y = -16$  ?
4. What is the value of x+y, given the following systems of equations?  $3x + 3y = 30$  ,  $x - 5y = 4$
5. What is the value of x+y, given the following systems of equations?  $-2x - 4y = 58$ ,  $2x - 3y = 12$
6. What is solution to the system of equations:  $-3x - 4y = -5$ ,  $-5x - 4y = 13$  ?
7. What is the x value of the system of equations:  $-2x - 3y = 40$ ,  $-x - y = 15$  ?
8. What is the x value of the system of equations:  $-5x - 3y = -16$ ,  $3x - 4y = 27$  ?
9. What is the value of x+y, given the following systems of equations?  $-x - 3y = -33$ ,  $-4x - 5y = -76$
10. What is the value of x+y, given the following systems of equations?  $5x + 2y = 33$ ,  $x + y = 6$
11. What is the value of x+y, given the following systems of equations?  $-3x - 2y = -1$ ,  $-x - 3y = -19$
12. What is solution to the system of equations:  $4x + 5y = -18$  ,  $-5x + y = 8$  ?
13. What is the x value of the system of equations:  $4x + y = 14$  ,  $-4x - 3y = -2$  ?
14. What is the value of x+y, given the following systems of equations?  $4x - 4y = -12$ ,  $x - y = -3$
15. What is the x value of the system of equations:  $4x + 5y = 70$ ,  $4x - 4y = -20$  ?
16. What is the value of x+y, given the following systems of equations?  $4x + 4y = -40$ ,  $3x - 4y = 12$
17. What is the value of x+y, given the following systems of equations?  $2x + 3y = 4$ ,  $2x - y = 20$
18. What is solution to the system of equations:  $4x - y = 9$  ,  $-x + 4y = -6$  ?
19. What is solution to the system of equations:  $x + y = 11$ ,  $-5x + y = -19$  ?
20. What is solution to the system of equations:  $3x + 2y = -16$ ,  $x - 3y = -9$  ?
21. What is the x value of the system of equations:  $4x + 5y = 0$ ,  $4x + 4y = 4$  ?
22. What is solution to the system of equations:  $-4x - y = -28$ ,  $-4x - y = -28$  ?
23. What is the x value of the system of equations:  $-2x + 4y = -20$ ,  $4x + 4y = -56$  ?
24. What is the x value of the system of equations:  $-2x + 4y = -40$ ,  $-2x - 4y = 8$  ?

## Answers

1.  $(9,2)$

2.  $(9,5)$

3.  $x=6$

4.  $x+y=10$

5.  $x+y=-19$

6.  $(-9,8)$

7.  $x=-5$

8.  $x=5$

9.  $x+y=17$

10.  $x+y=6$

11.  $x+y=3$

12.  $(-2,-2)$

13.  $x=5$

14.  $x+y=1$

15.  $x=5$

16.  $x+y=-10$

17.  $x+y=4$

18.  $(2,-1)$

19.  $(5,6)$

20.  $(-6,1)$

21.  $x=5$

22.  $(5,8)$

23.  $x=-6$

24.  $x=8$