

**Simultaneous Equations**  
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**Solve Each! No Changes Needed!**

(1)  $x + y = 8$

$x - y = 4$

(2)  $3A + 2B = 21$

$A + 2B = 11$

(3)  $2x + 3y = 14$

$5x - 3y = 14$

(4)  $4m + 5n = 29$

$4m + 2n = 26$

(5)  $3p - 5q = 6$

$p + 5q = 22$

(6)  $5x + 2y = 18$

$-5x + y = -21$

(7)  $3e + 4f = 17$

$e + 4f = 7$

(8)  $x - y = 2$

$10x + y = 97$

(9)  $2c + d = 2$

$2c - 3d = -22$

(10)  $2x + y = 7$

$x - y = 8$

**Solve Each! One Change Needed**

(11)  $7x + 3y = 13$

$2x + y = 4$

(12)  $4a + 10b = 34$

$a + 2b = 8$

(13)  $5x - y = 6$

$2x + 3y = 16$

(14)  $-2t + 3u = 0$

$t + 5u = 13$

(15)  $7x + 4y = 9$

$5x - y = -9$

(16)  $4A + 3B = 3$

$8A - 6B = 2$

**Solve Each! 2 Changes Needed!**

(17)  $2x + 5y = 12$

$7x - 2y = 3$

(18)  $3A + 4B = 26$

$2A + 3B = 19$

(19)  $4x + 3y = 19$

$5x - 2y = 18$

(20)  $2m + 5n = 9$

$9m + 2n = 20$

(21)  $3r - 5s = 4$

$2r + 4s = 10$

(22)  $7C + 4D = 36$

$-2C + 3D = -2$

(23)  $5X + 6Y = 7$

$2X + 7Y = 12$

(24)  $3x - 2y = 22$

$5x + 3y = 43$

(25)  $2P - 7Q = 55$

$9P + 2Q = 13$

(26)  $11x + 4y = 59$

$2x - 7y = 3$

**Solve Each! Mixed Questions!**

(27)  $x + 4y = 11$

$2x + y = 8$

(28)  $2x + y = 0$

$2x - y = 1$

(29)  $-x + 4y = 11$

$x - 3y = -8$

(20)  $3x + 4y = 17.5$

$2x - 7y = -27$

(31) At a cinema the cost of an adult ticket and two child tickets is £13.50. The cost of 3 adult tickets and 4 child tickets is £33.50. What is the cost of each ticket?

(32) The sum of two numbers is 16.9 and the difference is 7.3. What are the numbers?

(33) John has a collection of bikes and trikes. He has 94 in total. Given that there are 222 wheels in total, find out how many bikes and how many trikes John has.