

1. solve for  $x$  and  $y$

(a)  $2x - y = 1$   
 $2x + 2y = 10$

(b)  $2x + 3y = 8$   
 $5x - 2y = 1$

(c)  $3x + 5y = 7$   
 $4x + 3y = 2$

(d)  $5x - y = 15$   
 $x + y = -3$

(e)  $3x - y = 6$   
 $2x + 5y = -13$

(f)  $3x + 5y = 1$   
 $x - y = -5$

(g)  $2x - 5y = 3$   
 $3x + 2y = 14$

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

(i)  $3x - y = 18$   
 $x + 2y = -1$

2. solve for  $x$  and  $y$

(a)  $2x + 13 = 5y$   
 $3x + 4y - 15 = 0$

(b)  $3x + 2y - 14 = 0$   
 $2x + 16 = 5y$

(c)  $5y - 13 = 3x$   
 $2x + 3y - 4 = 0$

(d)  $x + 5y - 2 = 0$   
 $3y - 9 = 2x$

(e)  $4x + 3y + 10 = 0$   
 $5y - 18 = 2x$

(f)  $2x + 5y + 5 = 0$   
 $2y + 31 = 5x$

3. John buys 20 postage stamps for £5.36 . If he only buys stamps of value 22p and 30p, how many of each kind did he buy?
4. If Mary and Tom put their money together they have £36 . If Mary's money were halved and Tom's money doubled they would have £42. How much money does each have?
5. A packet of razors and a bar of soap cost £5.50 . If the soap costs £2.50 less than the razors, find the cost of each.
6. James bought 2 bottles of lemonade and 1 bag of crisps for £1.40 .  
Jill bought 1 bottle of lemonade and 3 bags of crisps for £1.70 .  
How much is a bottle of lemonade? How much is a bag of crisps?

1.

(a)  $x = 2$     $y = 3$

(b)  $x = 1$     $y = 2$

(c)  $x = -1$     $y = 2$

(d)  $x = 2$     $y = -5$

(e)  $x = 1$     $y = -3$

(f)  $x = -3$     $y = 2$

(g)  $x = 4$     $y = 1$

(h)  $x = -3$     $y = 4$

(i)  $x = 5$     $y = -3$

2.

(a)  $x = 1$     $y = 3$

(b)  $x = 2$     $y = 4$

(c)  $x = -1$     $y = 2$

(d)  $x = -3$     $y = 1$

(e)  $x = -4$     $y = 2$

(f)  $x = 5$     $y = -3$

3. 8 @ 22p,      12 @ 30p

4. Mary £20,      Tom £16

5. razors £4.00,      soap £1.50

6. bag of crisps 40p,      bottle of lemonade 50p