

Simultaneous Equations
(different y coefficients)

Solve:

(a) $x + 2y = 7$ (b) $x + 3y = 11$
 $3x + y = 6$ $4x + y = 22$
 (c) $3x - y = 7$ (d) $x - y = 5$
 $5x - 2y = 10$ $2x - 5y = 4$

(a) $x = 1$
 $y = 3$

(b) $x = 5$
 $y = 2$

(c) $x = 4$
 $y = 5$

(d) $x = 7$
 $y = 2$

Solve:

(a) $x + y = 5$ (b) $7x - y = 1$
 $3x - 2y = 5$ $x + 3y = 19$
 (c) $2x + 5y = 24$ (d) $4x - 2y = 14$
 $3x - y = 2$ $3x + y = 23$

(a) $x = 3$
 $y = 2$

(b) $x = 1$
 $y = 6$

(c) $x = 2$
 $y = 4$

(d) $x = 6$
 $y = 5$

Solve:

(a) $x + 2y = 13$ (b) $7x - 4y = 5$
 $2x + 3y = 20$ $x + 2y = 11$
 (c) $2x + 5y = 5$ (d) $4x - 2y = 14$
 $3x - 2y = 17$ $x - 3y = -4$

(a) $x = 1$
 $y = 6$

(b) $x = 3$
 $y = 4$

(c) $x = 5$
 $y = -1$

(d) $x = 5$
 $y = 3$

Solve:

(a) $5x + 2y = 31$ (b) $4x + y = 5$
 $x - 4y = 4$ $2x + 3y = 10$
 (c) $2x - 3y = 16$ (d) $x - 5y = 6$
 $7x - 2y = 39$ $3x + 2y = 1$
 (e) $3x + 4y = 14$ (f) $x + 7y = 15.5$
 $x - y = -7$ $2x - 5y = -7$

(a) $x = 6$
 $y = 0.5$

(b) $x = 0.5$
 $y = 3$

(c) $x = 5$
 $y = -2$

(d) $x = 1$
 $y = -1$

(e) $x = -2$
 $y = 5$

(f) $x = 1.5$
 $y = 2$

Three apples and two oranges costs £2.53. Five apples and three oranges costs £4.12. Find the cost of one apple and the cost of one orange.

One apple 65p
 One orange 29p