

Simultaneous Equations
(same y coefficient)

Solve:

- (a) $2x + y = 10$ (b) $4x + y = 9$
 $x + y = 7$ $x + y = 3$
- (c) $3x + 2y = 22$ (d) $5x + 2y = 17$
 $x + 2y = 10$ $3x + 2y = 11$

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 $x + 2y = 10$ $3x + 2y = 11$

Solve:

- (a) $2x + y = 14$ (b) $3x - y = 1$
 $x - y = 1$ $x + y = 7$
- (c) $3x + 2y = 25$ (d) $x - 3y = 2$
 $x - 2y = 3$ $2x + 3y = 22$

Solve:

- (a) $2x + y = 14$ (b) $3x - y = 1$
 $x - y = 1$ $x + y = 7$
- (c) $3x + 2y = 25$ (d) $x - 3y = 2$
 $x - 2y = 3$ $2x + 3y = 22$

Solve:

- (a) $5x + y = 5$ (b) $6x - y = 9$
 $3x + y = 7$ $5x - y = 7$
- (c) $4x + 2y = 22$ (d) $x - 3y = 4$
 $3x - 2y = 6$ $4x + 3y = 1$
- (e) $x + y = 0$ (f) $5x + 2y = 13$
 $x - y = 6$ $x + 2y = 9$
- (g) $3x + 2y = 16$ (h) $3x - y = 9$
 $x - 2y = 4$ $5x + y = 11$
- (i) $4x + y = 8$ (j) $5x - 2y = 7$
 $2x + y = 7$ $4x + 2y = 11$

Solve:

- (a) $5x + y = 5$ (b) $6x - y = 9$
 $3x + y = 7$ $5x - y = 7$
- (c) $4x + 2y = 22$ (d) $x - 3y = 4$
 $3x - 2y = 6$ $4x + 3y = 1$
- (e) $x + y = 0$ (f) $5x + 2y = 13$
 $x - y = 6$ $x + 2y = 9$
- (g) $3x + 2y = 16$ (h) $3x - y = 9$
 $x - 2y = 4$ $5x + y = 11$
- (i) $4x + y = 8$ (j) $5x - 2y = 7$
 $2x + y = 7$ $4x + 2y = 11$

David buys 5 biscuits and 3 cakes for £3.95. Samira buys 8 biscuits and 3 cakes for £5.15. Find the cost of one biscuit and the cost of one cake.

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Jim is thinking of two numbers. When he adds them together he gets 20. When he subtracts one from the other he gets 30. What are Jim's two numbers?

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