## Solving simultaneous equations by elimination (1)

Name:



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Solve:	
a) $4x + 3y = 19$	d) $3x + y = 16$
x + 3y = 7	4x + y = 18
b) $2x + 6y = 34$	e) $4x + 6y = 32$
2x + 3y = 19	x + 2y = 10
c) $6x + 3y = 39$	f) $3x + 3y = 9$
6x + 8y = 64	5x + 9y = 3
Solve:	
g) $2x - 3y = -16$	i) $5x - 2y = 31$
3x + 3y = 21	3x + 2y = 25
(h) $7x + y = 44$	j) $-2x + 5y = 14$
x - y = 4	2x + 3y = 18
Exam question: Two families go to a theatre production. The Parker family of two adults and three children pa The Rogers family of three adults and five children pa Work out the cost of an adult ticket and a child ticket.	y £109.

## Solving simultaneous equations by elimination (2)





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Solve:	
e) $2x + y = 14$	g) $4x + 7y = 39$
3x - y = 16	-4x + 3y = -29
f) $x - y = -4$	h) $4x + 2y = 8$
x + 6y = 24	8x - 7y = 60
Solve:	
a) $3x + y = 15$	d) $2x + y = 10$
4x + 5y = 53	5x - 7y = -51
b) $7x + 5y = 10$	e) $7x - 2y = 1$
x + 2y = -5	8x - 6y = 16
c) $5x + 2y = 24$	f) $7x + 4y = 10$
4x - 6y = 4	8x - 9y = -70
Exam question:	

I think of two numbers.

When I double the first number and add on the second, I get 17. When I treble the first number and subtract the second, I get 18 What are the two numbers I am thinking of?

