



QT Simultaneous Equations

Solve the simultaneous equations

1. $2y - 3x = 6$
 $2x + 2y = 1$

(3 marks)

2. $2x + 3y = -3$
 $3x - 2y = 28$

(3 marks)



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3. A rectangle has a perimeter of 22m. The width is 3m less than the length. Find the length and width. (3 marks)

4. A farmer has sheep and ostriches on his farm. He counts 92 heads and 194 legs. How many sheep and ostriches does he have? (4 marks)



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5. $3x - y = -4$
 $2x - 3y = 9$

(4 marks)

6. $3x = 9 + y$
 $x + 5y = 5$

(4 marks)



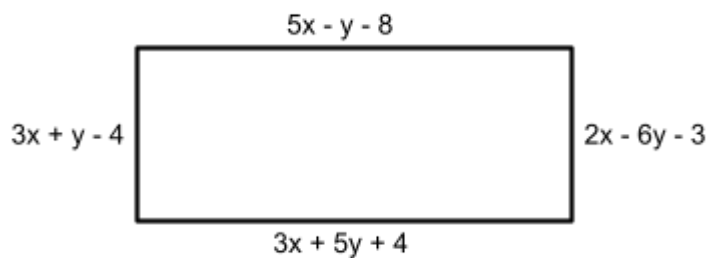
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7. Three apples and two bananas cost 75p.
Four apples and one banana cost 80p.
Find the price of one apple and one banana.

(4 marks)

8. The dimensions, in centimetres, of this rectangle are shown as algebraic expressions.
Work out the length and height of the rectangle.

(6 marks)





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9. 3 teas and 2 coffees have a total cost of £7.80.

5 teas and 4 coffees have a total cost of £14.20.

Work out the cost of one tea and one coffee.

(4 marks)

10. Solve the simultaneous equations where p is a constant. Give your answer in terms of p in their simplest form.

$$2x + 3y = 5p$$

$$y = 2x + p$$

(4 marks)