

# Simultaneous Equations

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# 1) Simultaneous Equations: Easier

1) Solve the simultaneous equations.

$$2x + 3y = 9$$

$$5x + 3y = 18$$

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

(3 Marks)

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2) Solve the simultaneous equations.

$$4x + 2y = 9$$

$$8x + 8y = 20$$

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

(4 Marks)

# 1) Simultaneous Equations: Medium

7) Solve the simultaneous equations.

$$6x + 3y = 15$$

$$4x - 9y = -34$$

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

(4 Marks)

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8) Solve the simultaneous equations.

$$5x + 2y = 29$$

$$8x - 6y = 51$$

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

(4 Marks)

# 1) Simultaneous Equations: Harder

9) Bill goes into a chip shop and buys **3 fish** and **2 portions of chips**, it cost him £5.20

Jenny also goes into the same chip shop. She buys **5 fish** and **6 portions of chips**, it cost her £10.80

What is the cost of a portion of fish and chips?

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(5 Marks)

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10) There are some ducks and some sheep on a farm. Altogether they have 35 heads and 94 feet.

How many ducks and sheep are there?

Ducks = \_\_\_\_\_  
Sheep = \_\_\_\_\_

(5 Marks)