

SIMULTANEOUS EQUATIONS

Pearson Edexcel - Tuesday 11 June 2019 - Paper 3 (Calculator) Foundation Tier

1.

30 Solve the simultaneous equations

$$3x - 4y = 11$$

$$9x + 2y = 5$$

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

(Total for Question 30 is 3 marks)

2.

25 Solve the simultaneous equations

$$5x + y = 21$$

$$x - 3y = 9$$

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

(Total for Question 25 is 3 marks)

3.

27 Solve the simultaneous equations

$$x + 3y = 12$$

$$5x - y = 4$$

$x =$

$y =$

(Total for Question 27 is 3 marks)

Pearson Edexcel – Specimen 1 - Paper 1 (Non-Calculator) Foundation Tier

4.

29 Solve the simultaneous equations

$$4x + y = 25$$

$$x - 3y = 16$$

$x = \dots\dots\dots, y = \dots\dots\dots$

(Total for Question 29 is 3 marks)

OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

5.

16 Solve the simultaneous equations.

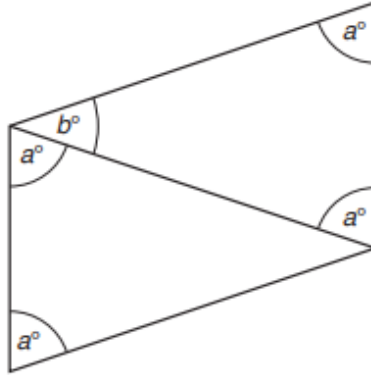
$$\begin{aligned}2x - y &= 7 \\2x + y &= 5\end{aligned}$$

$x =$

$y =$ [3]

6.

- 19 Two congruent, isosceles triangles are joined, as shown, to form a parallelogram. The largest angle of the **parallelogram** is 110° .



Not to scale

Write two equations.
Solve them to find the value of a and the value of b .

$a = \dots\dots\dots$

$b = \dots\dots\dots$ [4]

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

7.

19 You are given that $4a - 2b = 10$

19 (a) Write down the value of $2a - b$

[1 mark]

Answer _____

19 (b) Write down the value of $2b - 4a$

[1 mark]

Answer _____

19 (c) You are given that $4a - 2b = 10$ and $a + c = 3$

Write an expression in a , b and c that is equal to 23

Give your answer in its simplest form.

You **must** show your working.

[2 marks]

Answer _____

9.

15 $3a + b = 7$ and $6x + 8y = 40$

Show that $9a + 3b$ has a **greater** value than $3x + 4y$

[2 marks]

Turn over for the next question

10.

28 Solve the simultaneous equations.

$$2x + y = 18$$

$$x - y = 6$$

[3 marks]

Answer _____

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

11.

- 16** All tickets for a concert are the same price.
Amy and Dan pay £63 altogether for some tickets.
Amy pays £24.50 for 7 tickets.

How many tickets does Dan buy?

[4 marks]

Answer _____