AQA - Algebra - GCSE 2022 Mathematics

1. June/2022/Paper_8300/2F/No.2

Here is an expression 5a + 7b + 9c

Which is the second term?

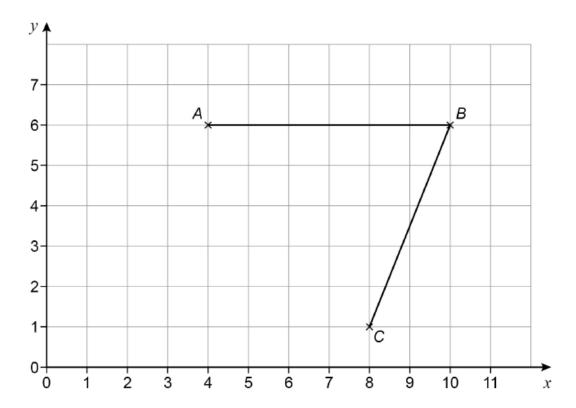
Circle your answer.

[1 mark]

a 7 7b 9

2. June/2022/Paper_8300/2F/No.10

Lines AB and BC are shown.



(a) Write down the coordinates of C.

[1 mark]

Answer (_____, ___)

(b) Write down the coordinates of the midpoint of AB.

[1 mark]

Answer (______, ____)

3. June/2022/Paper_8300/2F/No.14

Match each expression on the left with one on the right.

One has been done for you.

[3 marks]

$$a + 6$$

$$a + 3 + 2$$

a + 5

$$a + 3 \times 2$$

3a + 6

$$a \times 3 \times 2$$

6*a*

$$a \times 3 + 2$$

3a + 2

4. June/2022/Paper_8300/2F/No.17(c)

(c) Factorise 21x + 28

[1 mark]

Answer _____

	5.	June/2022/Paper_	8300/2F	/No.19
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(a) Circle the point that is on the line 4x + y = 7

[1 mark]

(2, 1) (2, -1)

(1, 2)

(-1, 2)

(b) Write down the coordinates of the *y*-intercept of the line y = 3x + 8

[1 mark]

Answer (_____ , ____)

Work out the gradient of the line 2y = 10x(c)

[1 mark]

Answer ____

6.	June/2022/Pape	er 8300/2F/N	lo.24

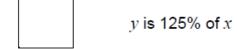
$$4y = 5x$$

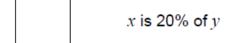
Which statement is correct?

Tick one box.

[1 mark]

y is 80% of x





7. June/2022/Paper_8300/2H/No.12

$$4y = 5x$$

Which statement is correct?

Tick one box.

[1 mark]

8. June/2022/Paper_8300/2H/No.18

Solve $x^2 + 7x - 11 = 0$

Give your solutions as decimals.

[2 marks]

Answer _____

9. June/2022/Paper_8300/2H/No.21

Which of these is the equation of a circle?

Circle your answer.

[1 mark]

$$x^2 - y^2 = 6$$
 $x^2 + y^2 = 6$ $y = x^2 - 6$ $y = x^2 + 6$

$$v^2 + v^2 = 6$$

$$y = x^2 - 6$$

$$v = r^2 + 6$$

10. June/2022/Paper_8300/2H/No.23

Factorise	$3x^2 - 16x - 12$	[2 marks]

Answer _____

aqasolvedexampapers.co.uk 11. June/2022/Paper_8300/2H/No.24 A straight line is perpendicular to the straight line through (2, 8) and (6, 15) and passes through (0, 9) and (x, 17)Work out the value of x. [4 marks]

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Т	\propto) =	2x	+	5

Show that	$3f(x) - 12f^{-1}(x)$	simplifies to an integer.	[4 marks]