

GRADIENT OF A LINE

Pearson Edexcel - Thursday 4 June 2020 - Paper 2 (Calculator) Foundation Tier

1.

29 Write down the gradient of the line with equation $y = 2x + 3$

(Total for Question 29 is 1 mark)

Pearson Edexcel - Thursday 8 November 2018 - Paper 2 (Calculator) Foundation Tier

2.

25 A is the point with coordinates $(5, 9)$
 B is the point with coordinates $(d, 15)$

The gradient of the line AB is 3

Work out the value of d .

(Total for Question 25 is 3 marks)

OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

3.

23 A straight line with gradient 4 passes through the point (1, 5).

Find the equation of the line in the form $y = mx + c$.

..... [3]

OCR Wednesday 8 November 2017– Morning (Calculator) Foundation Tier

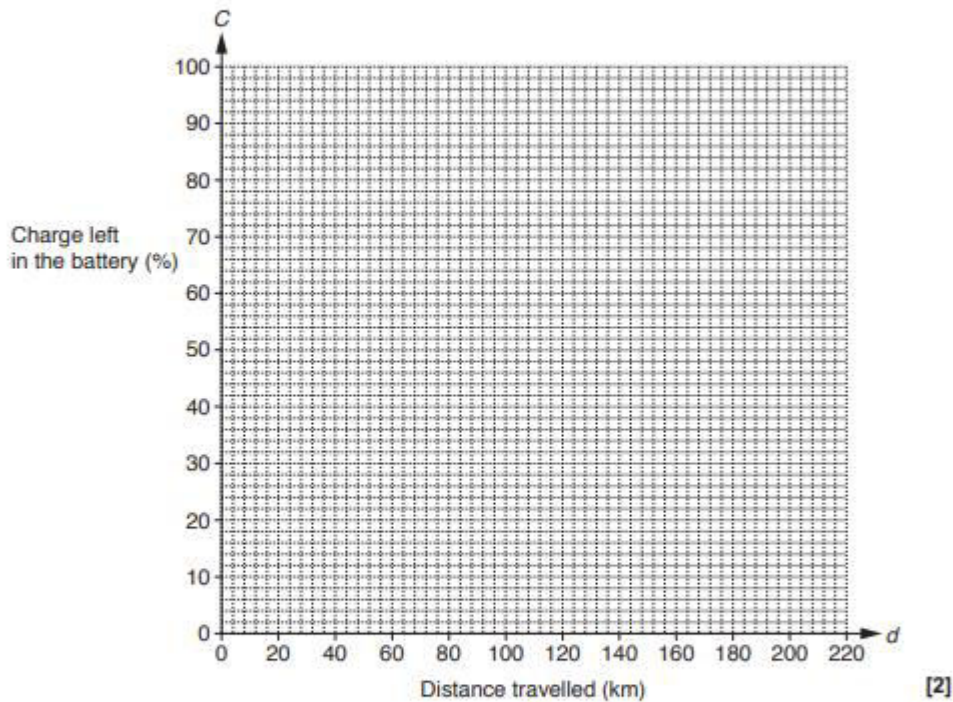
4.

- 11 A company tests a new battery for an electric car.
The distance the car travels, d km, and the charge left in the battery, $C\%$, are measured.

Some measurements are shown in the table.

Distance travelled, d km.	0	50	100	150
Charge left in the battery, $C\%$.	100	75	50	25

- (a) Plot these values on the grid and use them to draw a straight line.



- (b) (i) Use your line to estimate the greatest distance the car will travel.

(b)(i) km [1]

- (ii) What assumption is made when estimating the greatest distance?

.....
 [1]

(c) For your line in part **(a)**, find

(i) the gradient,

(c)(i) [1]

(ii) the *C*-axis intercept.

(ii) [1]

(d) Use your answers to part **(c)** to write down the equation of your graph.

Give your equation in the form $C = ad + b$.

(d) $C =$ [1]

(e) (i) Use your equation to find the value of *C* when $d = 210$.

(e)(i) [2]

(ii) Comment on your answer.

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..... [1]

AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

5.

30 Work out the gradient of the straight line through $(-2, 3)$ and $(1, 9)$

[2 marks]

Answer _____