GRADIENT OF A LINE

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

1.

29	2	B1	cao	

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

2.

25	7	P1 P1 A1	process to use gradient eg $y=3x+c$ **or** $c = -6$ **or** $\frac{15-9}{d-5}$ **or** $(15-9) \div 3$ **or** $(6, 12)$ (dep) full process to rearrange equation formed to isolate d eg rearrangement of $15 = 3d - 6$ or $3 = \frac{15-9}{d-5}$ **or** for $5 + \frac{15-9}{3}$ cao	Condone use of a letter other than d, for d Must show processes to get as far as $d =$ Award P2 for an answer of (7, 15)

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

3.

23			$y = 4x + 1$ final answer	**3**	**B2** for final answer $4x + 1$ OR **M2** for using (1, 5) correctly in $y = 4x + c$ **oe** or **M1** for $y = 4x + c$ **oe** or $y = 4x + k$ **oe** k any numerical value	Allow equivalent 3 term equation for 3 marks If $y = 4x + c$ and $y = mx + 4$ are seen, mark as choice

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4.

11	**(a)**		4 points plotted and a ruled line joining	**2**	**B1** for 3 points correctly plotted	Line at least between (0, 100) and (150, 25) Use overlay as guide. ½ square accuracy
	(b)	**(i)**	198 to 202	**1**	Do not FT their line	
		(ii)	Battery usage remains the same or Battery can be used right to 0% or Trend or pattern continues	**1**	Accept For every 50 km it uses 25%	
	(c)	**(i)**	$-\frac{1}{2}$ oe or –[0].5	**1**		Ignore units
		(ii)	100	**1**	Accept 0, 100	
	(d)		$-\frac{1}{2}d + 100$	**1**	**FT** *their* **(c)(i)***d* + *their* **(c)(ii)**	Accept any letter for *d* (except *c*)
	(e)	**(i)**	–5	**2**	**FT** *their* **(d)** if linear in *d*. **B1** for correct substitution of 210	Expect $-\frac{1}{2} \times 210 + 100$ Accept any letter for *d* (except *c*)

		(ii)	Impossible [as battery cannot have negative charge] oe	**1**	**FT** *their* **(i)** only if *their* equation gives negative outcome	

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5.

Q	Answer	Mark	Comments
30	$\frac{9-3}{1--2}$ or $\frac{6}{3}$ or $2x\ (+c)$ where c is a constant	M1	oe eg $\frac{3-9}{-2-1}$ or $\frac{-6}{-3}$
	2	A1	
	Additional Guidance		
	$2x$ may be implied eg $y-3=2(x+2)$	M1A0	