

BEARINGS

Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Foundation Tier

1.

13	(a)	0.25	B1	for angle in the range 23 to 27	Accept without the initial 0, eg. 25
	(b)	1.25	M1	for measurement of AB in the range 4.8 to 5.2 (cm) or 48 to 52 (mm)	Could be just seen on the diagram
			M1	for " 5 " \times 25000 (= 125000) or " 50 " \times 25000 (= 1250000) or " 5 " \div 100000 (= 0.00005) or " 50 " \div 1000000 (= 0.00005) or 25000 \div 100000 (= 0.25) or 25000 \div 1000000 (= 0.025)	125000 or 1250000 seen implies M1M1 For the award of this mark, " 5 " or " 50 " can be any value in the range 4 to 6 or 40 to 60
A1	for answer in the range 1.2 to 1.3				

Pearson Edexcel - Monday 6 November 2017 - Paper 2 (Calculator) Foundation Tier

2.

9	(a)		2.75	M1	for accurately measuring the distance between Backley and Cremford as 5.3 cm – 5.7 cm oe or their measurement \times 0.5 oe
				A1	for answer in the range 2.65 to 2.85
	(b)		130	B1	for answer in the range 128 to 132

Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

3.

18			explanation	C1	'The bearing is 335° ' or 'She should have measured clockwise from north' oe
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OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

4.

9	(a)		22	2	Accept 21.2 to 22.8 M1 for 5.3 to 5.7 [cm] seen Or 53 to 57 [mm] seen	May be seen on diagram or on the answer line
9	(b)		063 to 067	1		Condone eg 65
9	(c)		Lighthouse indicated correctly 4.3 to 4.7 cm from P and on bearing of 198 to 202 from Q	2	M1 for either condition correct	Allow unambiguous indication if a cross is not seen For M1 allow an arc/circle centre P with radius 4.3 to 4.7 cm Use overlay as a guide

OCR Thursday 25 May 2017 – Morning (Calculator) Foundation Tier

5.

22	(a)		135	2	B1 for <u>angle</u> 45	e.g 45 marked at ACB or ABC or $180 - 45$ or $90 + 45$
	(b)		209 to 209.1	4	M2 for $\tan^{-1}(45+25)$ or $\tan^{-1}(25+45)$ so/ by 61, 60.94 to 60.95 or 29[.1], 29.05... or M1 for $\tan [=] 45+25$ or $\tan [=] 25+45$ AND M1 for $270 - \text{their angle ABD}$ or $180 + \text{their angle ADB}$	Accept longer methods but they must get to the equivalent point to gain credit e.g. if they find the hypotenuse, they score M0 until they start to use sin or cos. Can be implied by <i>their</i> answer

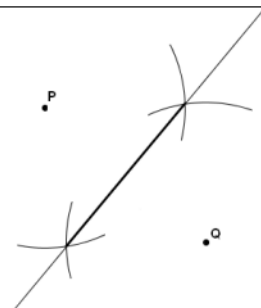
OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

6.

4	a	i	3.2	2	Accept 3.1 to 3.3 M1 for 6.2 to 6.6[cm] seen or 62 to 66[mm] seen	May be seen on diagram or on the answer line
		ii	115	1	Accept 113 to 117	
	b		C marked 5 cm from B C marked on bearing of 230° from B	2	Accept 4.8 to 5.2 cm Accept 226° to 234° B1 for one correct	Condone C not labelled if clear indication is given eg marked with a cross If C not indicated, an arc radius 5cm, centre B scores B1 with no other arcs Use overlay as a guide for 2 marks or use on screen ruler and protractor to confirm B1. Protractor reading 126° to 134°

OCR Sample Question Paper 1 – Morning/Afternoon (Calculator) Foundation Tier

7.

16	(a)		140 – 160 (s)	3 1 AO1.3a 1 AO3.1d 1 AO3.2	B1 300 ± 20 (m) M1 for $\frac{\text{their '300'}}{2}$	
	(b)		Correct location for F	2 1 AO1.3a 1 AO3.1d	B1 angle $55^\circ \pm 2^\circ$ B1 distance $8 \text{ cm} \pm 0.2$	
	(c)			4 1 AO1.3b 1 AO2.3b 2 AO3.1d	B1 perpendicular bisector of PQ drawn $\pm 2^\circ$ B1 for arcs seen B1 arc centre P, radius 4 ± 0.2 cm B1 correct line segment marked FT their constructions	Arcs must be fit for purpose May be the same arcs as used for perpendicular bisector as shown

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

8.

16(a)	No and correct reason or No and correct description of correct method or No and 280(°)	B1	eg No, he has done B from A No, the North line should go from B
	Additional Guidance		
	Ignore non-contradictory, irrelevant responses alongside a correct response		
	Answer must either include 'No' or 'Kemal is wrong' oe		
	Ignore diagram if B1 scored from answer lines		
	No, it is 280		B1
	No, should start / measure from B		B1
	No, it's from the wrong point		B1
	Kemal is wrong, he started from A (and went to B)		B1
	No and a correct method/drawing shown in either box		B1
	No, the bearing should be reflex		B1
	No, he did A to B (not A from B)		B1
	No, should be anticlockwise		B0
	No, measured the wrong way around		B0
	No, bearing would be 260		B0
	(It should be) 280 (not sufficient to imply 'no')		B0
	No, he measured from A which is 100 but you're meant to measure from B which is 170		B0
	Bearing should start from B (should is not sufficient to imply 'no')		B0
	Not measured from B		B0
	Started from A (and went to B)		B0
No, it's from the wrong place		B0	

16(b)	No and correct reason	B1	eg No, it's North East No, NW is 315(°)
	Additional Guidance		
	Reasoning may be seen on diagram. The angles do not need to be accurate if intention is clear.		
	No, you've gone anticlockwise		B1
	No, NW lies between 270 and 360 (but 045 is between 0 and 90)		B1
	No, D is NE of C		B1
	Do not accept incorrect statements eg No, North West is 225°		B0
	No, C is SW of D (true but not referencing what Nina says)		B0
	045 is NE		B0
	D is NE of C		B0
	No, it will be larger		B0

16(c)	Line drawn due South from <i>E</i> (any length) or [4.3, 5.1]	M1	mark intention on 'south' mark intention on 'line' accept a cross on coast roughly south of <i>E</i>
	their value $\times 100$	M1	[430, 510] implies M2 eg 1.3×100
	[450, 490] and correct for their value	A1	SC1 600 [450, 490] scores M1M1A1 unless error seen
	Additional Guidance		
	Line drawn or no line drawn and $4.6 \times 100 = 465$ (within range but not correct for their value)		M1M1A0
	No line drawn and $4.2 \times 100 = 420$		M0M1A0
	600 may score up to M2, only award SC1 if M0 scored		
	If line goes North as well as South of <i>E</i> , working must choose the South direction length (in range) for at least 1st M1 (but 2nd M1 could still be scored)		
	If line does not reach coast or goes beyond coast, full marks can still be awarded for a correct method with correct answer within range		
Ignore units throughout eg $4.8 \times 100 = 480$ cm		M1M1A1	

AQA Thursday 8 November 2018 – Morning (Calculator) Foundation Tier

9.

4	225°	B1	
	Additional Guidance		

AQA Thursday 7 June 2018 – Morning (Calculator) Foundation Tier

10.

17(a)	270	B1	
	Additional Guidance		

17(b)	Alternative method 1 (working in cm)		
	[6.3, 6.7]	B1	implied by 1300
	[2.5, 2.9] and [1.8, 2.2] or [4.5, 4.9]	B1	implied by 540 and 400 implied by 940
	their 6.5×200 or 1300 and their 2.7×200 or 540 and their 2×200 or 400 or their 6.5×200 or 1300 and (their $2.7 + \text{their } 2$) $\times 200$ or 940 or their 6.5×200 or 1300 and their 4.7×200 or 940	M1	oe 1300 and 540 and 400 implies B2M1 1300 and 940 implies B2M1 distances must be exact if measurements not shown if only one value used for BC from the start, their 4.7 must be > 4 and < 6
	their 1300 – their 540 – their 400 or their 1300 – their 940	M1dep	oe may be implied by correct answer for their distances their 940 must be > 800 and < 1200
	Correct answer for their 6.5 and their 2.7 and their 2 with all measurements seen or Correct answer for their 6.5 and their 4.7 with all measurements seen	A1ft	ft their measurements their 4.7 must be > 4 and < 6

17(b) cont	Alternative method 2 (working in cm)		
	[6.3, 6.7]	B1	
	[2.5, 2.9] and [1.8, 2.2] or [4.5, 4.9]	B1	
	their 6.5 – their 2.7 – their 2 or their 6.5 – their 4.7 or 1.8	M1	oe if only one value used for BC from the start, their 4.7 must be > 4 and < 6
	their 1.8 × 200	M1dep	oe may be implied by correct answer
	Correct answer for their 6.5 and their 2.7 and their 2 with all measurements seen or Correct answer for their 6.5 and their 4.7 with all measurements seen	A1ft	ft their measurements their 4.7 must be > 4 and < 6
	Additional Guidance		
	Allow work in mm but note that they must multiply by 20 for the M1		
	Working may be on diagram		
	Must show measurements to score the A mark and answer must be correct for their original measurements		
	1300 – 940 and answer 360 (no measurements)		B1B1M1M1A0
	1300 – 920 and answer 380 (no measurements)		B1B0M0M0A0
	6.5, 4.6, 1300 – 920 and answer 380		B1B1M1M1A1ft
	6.5, 4.2, 1300 – 840 and answer 460		B1B0M1M1A1ft
6.5, 2.6, 2 on diagram, 1300 – 5 × 200 (5 wrong for their values and addition not shown)		B1B1M0M0A0ft	