Mark scheme

Bearings

Mathematics 0580 · Questions from Paper 1, Paper 2, Paper 3 and Pape…

Total marks

25

MARKS FOR EACH QUESTION

1	2	3	4	5	6	7	8	9	10	Total
1	2	2	2	2	2	3	3	4	4	**25**

Question 1 **[1]**

1	113°	**1**	

Question 2 **[2]**

2	**(a)** (0)34 to (0)36	1	
	(b) 286 to 289	1	

Question 3 **[2]**

3	287°	2	**W1** for 73 or 107 marked in correct position **at *P*** or **M1** 107 + 180

Question 4 **[2]**

4	231	**2**	**B1** for any of these angles in correct place on the diagram 51 or 129 or 141 between east line drawn from *P* to *PQ* or 39 between west line dawn from *P* to *PQ* or indicating the correct bearing of *Q* from *P* on the diagram. or **M1** for 180 + (90 – 39) oe or 360 – (90 + 39)

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Question 5 **[2]**

5	*S* marked correctly	**2**	**B1** for *HS* drawn length 5.5cm **B1** for bearing of *S* from *H* 155˚

Question 6 **[2]**

6	Correct point marked	**2**	**B1** for bearing of *B* from *A* 105° **B1** for *AB* drawn length 6 cm

Question 7 **[3]**

7 (a)	230	**1**	
(b)	C marked in correct position	**2**	**B1** for correct distance 8 cm or correct bearing 155°

Question 8 **[3]**

8	252	**3**	**M2** for 180 ÷ (7 – 2) oe OR **M1** for 180 – *x* + *y* = 360 oe **M1** for correct use of ratio

Question 9 **[4]**

9(a)	*B* marked 6 cm from *A* on a bearing of 080°.	**2**	**M1** for a correct bearing of 080° but incorrect length or for a 6 cm line from *A*
9(b)	310	**2**	**M1** for 180 + 130 oe or indicates required bearing on a sketch

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Question 10 **[4]**

10	125	**4**	**B1** for 48 between the North line and *AB* at *A*. **M1** for 180 − *their* 48 **M1** dep for 360 − (103 + *their* 132) OR **M1** for [angle *ACB* =] 180 − 103 − (90 − their 48) **M1** dep for 90 + *their ACB* or for 180 − (90 − *their ACB*)

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