Mark scheme

Charts and diagrams

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

Total marks

31

MARKS FOR EACH QUESTION

1	2	3	4	5	6	7	8	9	10	Total
2	2	2	2	3	3	4	4	4	5	**31**

Question 1 **[2]**

1	Pictogram completed correctly	**2**	**B1** for 2 rows completed correctly

Question 2 **[2]**

2(a)	Feb	**1**	
2(b)	September and October have most rainfall, June has most rain days oe	**1**	

Question 3 **[2]**

3	54	**2**	**M1** for $\frac{360}{8+5+4+3}[\times 3]$ or $\frac{3}{8+5+4+3}[\times 360]$ oe

Question 4 **[2]**

4	Bar width not equal oe Scale not linear oe	**2**	**B1** for each

Question 5 **[3]**

5	**(a)** 15	**1**	
	(b) 2 (pm), 6 (pm)	**1**	
	(c) 15	**1**	Allow −15

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Question 6 **[3]**

6	Correct bar chart	**3**	**B1** for a correct, linear vertical scale, with at least 2 numbers alongside the lines **B1** for all bars correct heights, 12, 9, 11 and 4 **B1** for equal width bars and consistent gaps or no gaps between the bars

Question 7 **[4]**

7(a)	0 | 6 9 1 | 4 5 6 6 6 7 8 2 | 0 2 4 4 7 3 | 2 7	**2**	**B1** for two or three rows correct or for a fully correct unordered stem-and-leaf diagram or for a correct diagram with one error or omission
7(b)	16	**1**	
7(c)	17.5	**1**	

Question 8 **[4]**

8(a)	48	**1**	
8(b)	$\frac{1}{3}$ cao	**1**	
8(c)	150	**2**	**M1** for $\frac{45}{108} \times 360$ oe

Question 9 **[4]**

9(a)	64 136 160	**2**	**B1** for 1 correct or **M1** for $\frac{360}{90} \times k$ (k = 1, 16, 34 or 40) oe
9(b)	Accurate pie chart	**2**	**B2FT** if *their* angles add up to 360° or **B1FT** for one correct sector or one correct FT sector (may or may not add up to 360°)

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Question 10 [5]

10	**(a)**	correct working	**2**	**M1** for 1 holiday = 5 or 360 ÷ 72 = 5 and **B1** for 24 × 5 [= 120] or **M2** for $\frac{24}{72} \times 360$ [=120] oe
	(b)	6 nfww	**3**	**M1** for 150 + 120 + x + 2x = 360 oe **A1** for 30 identified as the required angle

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