

01. 0580_m24_ms_22 Q: 5

(a)	54	2	M1 for $\frac{3}{20}[\times 360]$ oe or $\frac{360}{20}[\times 3]$ oe
(b)	$\frac{17}{20}$ oe	1	

02. 0580_m24_ms_22 Q: 7

	Positive	1	
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03. 0580_m24_ms_22 Q: 17

Question	Answer	Marks	Partial Marks
	138.425	4	<p>M1 for mid-points soi (110, 125, 140, 170)</p> <p>M1 for use of Σfh with h in correct interval including both boundaries</p> <p>M1 for (dep on 2nd M1) for Σfh, 200</p>

04. 0580_s24_ms_22 Q: 3

(a)	<p>Correct table</p> <table border="1" style="margin-left: 20px;"> <tr> <td style="border-right: 1px solid black; padding: 2px;">2</td> <td style="padding: 2px;">2 8</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">3</td> <td style="padding: 2px;">6 9</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">4</td> <td style="padding: 2px;">1 4 8 9</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">5</td> <td style="padding: 2px;">2 4 7 7</td> </tr> </table>	2	2 8	3	6 9	4	1 4 8 9	5	2 4 7 7	2	B1 for two rows correct or for fully correct unordered stem-and-leaf diagram
2	2 8										
3	6 9										
4	1 4 8 9										
5	2 4 7 7										
(b)	46	1									

05. 0580_s24_ms_23 Q: 15

(a)	11	2	B1 for 16 or 27 seen
(b)	6	2	M1 for 194 seen

06. 0580_s23_ms_22 Q: 3

Question	Answer	Marks	Partial Marks						
(a)	<table border="1"> <tr> <td>0</td> <td>(1 3) 4 5 5 8</td> </tr> <tr> <td>1</td> <td>1 2</td> </tr> <tr> <td>2</td> <td>3 4</td> </tr> </table>	0	(1 3) 4 5 5 8	1	1 2	2	3 4	2	B1 for a correct diagram with one error or omission or for a fully correct unordered stem-and-leaf diagram
0	(1 3) 4 5 5 8								
1	1 2								
2	3 4								
(b)	6.5	1							

07. 0580_w23_ms_21 Q: 2

Question	Answer	Marks	Partial Marks
(a)	27	1	
(b)	15	1	
(c)	25	1	

08. 0580_w23_ms_21 Q: 6

Question	Answer	Marks	Partial Marks
(a)	4800	1	
(b)	Point plotted at (54 000, 6100)	1	
(c)	Positive	1	

09. 0580_w23_ms_22 Q: 23

Question	Answer	Marks	Partial Marks
	10	2	M1 for $\frac{7.5}{18 \div 6}$ oe or better or [frequency densities] 3 and 4 or 45 and $4h$ or 45 and 40

10. 0580_w23_ms_23 Q: 3

Question	Answer	Marks	Partial Marks
(a)	12.2	1	
(b)	12.1	2	B1 for 157.3 oe or M1 for <i>their</i> total $\div 13$

11. 0580_w23_ms_23 Q: 14

Question	Answer	Marks	Partial Marks
(a)	3.3	1	
(b)	0.55	1	

12. 0580_m22_ms_22 Q: 11

Question	Answer	Marks	Partial Marks
	Positive	1	

13. 0580_s22_ms_22 Q: 2

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

14. 0580_s22_ms_23 Q: 4

Question	Answer	Marks	Partial Marks																		
(a)	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="width: 5%; text-align: center;">0</td> <td style="width: 5%;"></td> <td style="width: 5%; text-align: center;">(3</td> <td style="width: 5%; text-align: center;">4)</td> <td style="width: 5%; text-align: center;">7</td> <td style="width: 5%; text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2 7 8</td> </tr> <tr> <td style="text-align: center;">2</td> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td></td> <td></td> </tr> </table>	0		(3	4)	7	8	1		1	1	2	2 7 8	2		1	3			2	B1 for two rows correct or for fully correct unordered stem-and-leaf diagram or for a correct diagram with one error or omission
0		(3	4)	7	8																
1		1	1	2	2 7 8																
2		1	3																		
(b)	1.15	1																			

15. 0580_s22_ms_23 Q: 7

Question	Answer	Marks	Partial Marks
(a)	27 000	1	
(b)	Point plotted at (175, 9)	1	
(c)	Correct single ruled line of best fit	1	
(d)	300 to 350	1	FT <i>their</i> straight line of best fit provided positive gradient

16. 0580_w22_ms_22 Q: 8

Question	Answer	Marks	Partial Marks
(a)	3.5	2	M1 for values in correct order 1.5 2 2 3 4 4.5 5 18 or 3 and 4 identified as middle numbers
(b)	One extreme value oe	1	

17. 0580_w22_ms_22 Q: 13

Question	Answer	Marks	Partial Marks
(a)	A correct cumulative frequency diagram	3	B1 for correct horizontal placement for 7 plots B1 for correct vertical placement for 7 plots B1FT dep on at least B1 for reasonable increasing curve or polygon through <i>their</i> 7 points If 0 scored SC1 FT for 6 out of 7 points correctly plotted
(b)	33 to 34.5	1	FT <i>their</i> increasing cumulative frequency graph

18. 0580_w22_ms_22 Q: 14

Question	Answer	Marks	Partial Marks
	104	2	M1 for 0.5×136 oe or 0.25×144 oe

19. 0580_w22_ms_23 Q: 4

Question	Answer	Marks	Partial Marks
	93 95 101 101	3	M1 for 4×97.5 implied by 390 or for four numbers which add to 390 B1 for four numbers with a range of 8 B1 for four numbers with mode of 101 to a maximum of 2 marks

20. 0580_m21_ms_22 Q: 3

Question	Answer	Marks	Partial Marks						
(a)	<table border="1"> <tbody> <tr> <td>1</td> <td>5 7 8 9 9</td> </tr> <tr> <td>2</td> <td>2 4 4 5 9</td> </tr> <tr> <td>3</td> <td>1 5 6 8</td> </tr> </tbody> </table>	1	5 7 8 9 9	2	2 4 4 5 9	3	1 5 6 8	2	B1 for two rows correct or for a fully correct unordered stem-and-leaf diagram or for a correct diagram with one leaf incorrect or omitted
1	5 7 8 9 9								
2	2 4 4 5 9								
3	1 5 6 8								
(b)	24	1							

21. 0580_m21_ms_22 Q: 5

Question	Answer	Marks	Partial Marks
	Negative	1	

22. 0580_m21_ms_22 Q: 17

Question	Answer	Marks	Partial Marks
	13 nfw	3	M2 for $251 + 7x = 7.6(32 + x)$ or better or M1 for $\frac{5 \times 4 + 6 \times 5 + 7x + 8 \times 11 + 9 \times 7 + 10 \times 5}{32 + x} = 7.6$ oe

23. 0580_s21_ms_21 Q: 3

Question	Answer	Marks	Partial Marks
(a)	28	1	
(b)	21	1	
(c)	35	1	

24. 0580_s21_ms_22 Q: 3

Question	Answer	Marks	Partial Marks						
	<table border="1"> <tr> <td>Mode</td> <td>16</td> </tr> <tr> <td>Median</td> <td>11</td> </tr> <tr> <td>Range</td> <td>17</td> </tr> </table>	Mode	16	Median	11	Range	17	3	B1 for each
Mode	16								
Median	11								
Range	17								

25. 0580_s21_ms_22 Q: 4

Question	Answer	Marks	Partial Marks
	$k - 1$	1	

26. 0580_s21_ms_22 Q: 5

Question	Answer	Marks	Partial Marks
(a)	It is not possible to tell if there is correlation as there are not enough points.	1	
(b)	C	1	

27. 0580_w21_ms_21 Q: 4

Question	Answer	Marks	Partial Marks
(a)	22	1	
(b)	30	1	

28. 0580_w21_ms_21 Q: 5

Question	Answer	Marks	Partial Marks				
	<table border="1"> <tr> <td>lost</td> <td>drawn</td> </tr> <tr> <td>0.6 oe</td> <td>0.3 oe</td> </tr> </table>	lost	drawn	0.6 oe	0.3 oe	3	B2 for 0.6 oe or 0.3 oe or M1 for 1 – 0.1 or 0.9 seen
lost	drawn						
0.6 oe	0.3 oe						

29. 0580_w21_ms_22 Q: 2

Question	Answer	Marks	Partial Marks
	41 43 20	3	B1 for each

30. 0580_m20_ms_22 Q: 2

Question	Answer	Marks	Partial Marks																					
(a)	<table> <tr> <td>1</td> <td> </td> <td>3</td> <td>5</td> <td>8</td> </tr> <tr> <td>2</td> <td> </td> <td>1</td> <td>4</td> <td>6</td> <td>8</td> </tr> <tr> <td>3</td> <td> </td> <td>6</td> <td>8</td> <td>8</td> </tr> <tr> <td>4</td> <td> </td> <td>5</td> <td>8</td> <td></td> </tr> </table>	1		3	5	8	2		1	4	6	8	3		6	8	8	4		5	8		2	M1 for correct but not ordered or for two correct rows ordered
1		3	5	8																				
2		1	4	6	8																			
3		6	8	8																				
4		5	8																					
(b)	27	1																						

31. 0580_m20_ms_22 Q: 6

Question	Answer	Marks	Partial Marks
	7.2	3	M1 for $5 \times 8 + 6 \times 5 + 7 \times 11 + 8 \times 7 + 9 \times 5 + 10 \times 4$ M1dep for $\div 40$

32. 0580_m20_ms_22 Q: 14

Question	Answer	Marks	Partial Marks
(a)	11.5	1	
(b)(i)	12	1	
(b)(ii)	8.5	1	

33. 0580_P20_ms_20 Q: 6

	Answer	Mark	Partial Marks
	10 7 11 4 6 8 12 0 4 7 9 13 0 2	2	B1 for 8 or 9 correct numbers ordered or for 10 correct numbers not ordered

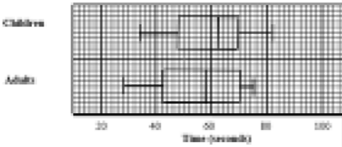
34. 0580_P20_ms_20 Q: 24

	Answer	Mark	Partial Marks
	Median is greater for Electro company so Tom is wrong because Spark is cheaper oe	2	M1 for Spark median = 46 and Electro median = 52
	IQR is greater for Spark company so Tom is right Spark is more varied oe	2	M1 for Spark IQR = 26 and Electro IQR = 18

35. 0580_s20_ms_21 Q: 3

	Answer	Marks	Partial Marks
(a)	66	1	
(b)	Positive	1	
(c)	Ruled line of best fit	1	
(d)	46 to 50	1	FT <i>their</i> line of best fit if a positive gradient

36. 0580_s20_ms_21 Q: 12

	Answer	Marks	Partial Marks
(a)	22	2	B1 for 48 and 70
(b)		2	M1 for a box with two whiskers and at least two correct from Min 28, LQ 42, Med 58, UQ 70, Max 75

37. 0580_s20_ms_23 Q: 15

	Answer	Marks	Partial Marks
	28.33 or 28.3 or 28.33...	4	M1 for midpoints soi M1 for use of $\sum fx$ M1 dep for $\sum fx \div 60$

38. 0580_w20_ms_21 Q: 4

Question	Answer	Marks	Partial Marks
(a)	4 points correctly plotted	2	B1 for 2 or 3 points correctly plotted
(b)	Negative	1	
(c)	Correct ruled line of best fit	1	
(d)	10 to 12	1	FT <i>their</i> straight line of best fit

39. 0580_w20_ms_23 Q: 22

Question	Answer	Marks	Partial Marks
(a)	27.625	4	M1 for 5, 12.5, 17.5, 30, 57.5 M1 for $\sum fx$ where x is in correct interval including boundaries M1 dep on second M1 for $\frac{\sum fx}{100}$
(b)	6 and 2.4	3	B2 for either correct or M1 for [fd =] 1.5 or 0.6 oe or B1 for [multiplier] 4

40. 0580_s19_ms_22 Q: 18

	Answer	Mark	Partial Marks
	12.8 4.4 0.8	3	B2 for 2 correct heights or 3 correct freq densities or B1 for 1 correct height or 2 correct freq densities

41. 0580_s19_ms_23 Q: 4

	Answer	Mark	Partial Marks
	Mode	1	

42. 0580_s19_ms_23 Q: 8

	Answer	Mark	Partial Marks
(a)	32	1	
(b)	Positive	1	

43. 0580_s19_ms_23 Q: 23

	Answer	Mark	Partial Marks
(a)(i)	5	1	
(a)(ii)	2.4 to 2.6	2	B1 for [LQ=] 3.4 to 3.6 or [UQ=] 6
(b)	26, 74	2	B1 for each

44. 0580_w19_ms_22 Q: 5

	Answer	Mark	Partial Marks
(a)	23	1	
(b)	One extreme value oe	1	

45. 0580_w19_ms_22 Q: 6

	Answer	Mark	Partial Marks
	135	2	M1 for $\frac{12}{12+7+9+4} [\times 360]$ or $\frac{360}{12+7+9+4} [\times 12]$ oe

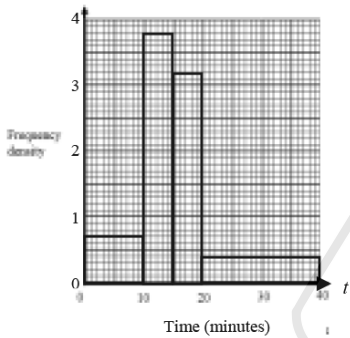
46. 0580_w19_ms_23 Q: 10

	Answer	Mark	Partial Marks
	30	3	M1 for $\frac{391+n+n-1}{3} = 5n$ oe M1 for correct first step for solving <i>their</i> equation e.g. $391+n+n-1 = 3 \times 5n$, $\frac{390+2n}{3} = 5n$

47. 0580_w19_ms_23 Q: 16

	Answer	Mark	Partial Marks
(a)	12.88	1	
(b)	two correct points plotted	1	
(c)	ruled line of best fit	1	
(d)	negative	1	

48. 0580_w19_ms_23 Q: 23

	Answer	Mark	Partial Marks
(a)	$10 < t \leq 15$	1	
(b)	Correct histogram 	3	B1 for each correct block If 0 scored, SC1 for correct frequency densities 3.8, 3.2, 0.4 soi by correct heights

49. 0580_s18_ms_21 Q: 18

	Answer	Mark	Partial Marks
(a)	10 nfw	2	B1 for UQ = 30 or LQ = 20 clearly identified
(b)	4	2	B1 for 116 indicated

50. 0580_s18_ms_21 Q: 23

	Answer	Mark	Partial Marks
(a)(i)	4	1	
(a)(ii)	3.2	3	M1 for Σfx , allow one error or omission and M1dep for $\frac{their\ 128}{40}$
(b)	27	2	M1 for $\frac{3}{40}$ or $\frac{360}{40}$

51. 0580_s18_ms_22 Q: 13

	Answer	Mark	Partial Marks
	15 and 22	2	M1 for 1.5×10 or 1.1×20

52. 0580_s18_ms_22 Q: 21


	Answer	Mark	Partial Marks
(a)	140 000	1	
(b)	Points correctly plotted at (40, 80) and (80, 150)	1	
(c)	Correct ruled line of best fit	1	
(d)	80000 to 110 000	1	FT their straight line provided it has positive gradient

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53. 0580_w18_ms_21 Q: 3

	Answer	Mark	Partial Marks
	Negative	1	

54. 0580_w18_ms_22 Q: 18

	Answer	Mark	Partial Marks
	Correct pie chart e.g. 	4	B3 for correct chart no labels or for 2 correct sectors with or without labels or B2 for 3 correct angles seen (171°, 135° and 54°) or 3 correct percentages (47.5%, 37.5% and 15%) or M1 for method e.g. $\frac{57}{120} \times 360$, 57×3 or $\frac{57}{120} \times 100$ oe or one correct sector on the pie chart

55. 0580_w18_ms_22 Q: 24

	Answer	Mark	Partial Marks
(a)	25	1	
(b)	12	2	B1 for 16 or 28
(c)	5	2	B1 for 75

56. 0580_s17_ms_21 Q: 16

	Answer	Mark	Partial Marks
(a)	Points plotted at (4.5, 33) and (6.5, 35)	1	
(b)	Positive	1	
(c)	Correct ruled line	1	
(d)	33.5 to 37.5	1FT	FT from <i>their</i> line providing positive gradient

57. 0580_w17_ms_21 Q: 4

	Answer	Mark	Partial Marks
	88	2	M1 for $\frac{68 + 81 + 74 + 89 + x}{5} = 80$ oe or B1 for 400

58. 0580_w17_ms_21 Q: 22

	Answer	Mark	Partial Marks
(a)	80 to 84	2	M1 for 116 to 120
(b)	Correct curve or ruled lines	3	B2 for 7 or 8 correct points B1 for 5 or 6 correct points
(c)	26	2	B1 for 156 or 130 or for <i>their</i> 130 from <i>their</i> increasing curve (or lines)

59. 0580_w17_ms_23 Q: 21

	Answer	Mark	Partial Marks
(a)	3.4	3	M1 for $2 + 5 + 4 + 2 + 1 + 3 + 2 + 7 + 6 + 2$ [34] M1 for <i>their</i> $34 \div 10$
(b)	5	2	M1 for 5, 5 identified
(c)	[Day] 10	1	

60. 0580_m16_ms_22 Q: 16

	Answer	Mark	Partial Marks
	44.1 or 44.07...	4	M1 for 4 of mid-values 15 30 45 55 75 soi M1 for $\sum fx$ for any x in intervals including boundaries M1 dep for $\sum fx \div 70$ Dep on 2nd M mark earned

61. 0580_s16_ms_22 Q: 11

	Answer	Mark	Partial Marks
	68 76 78 78	3	B1 for four values with a mode of 78 B1 for four values with a median of 77 B1 for total of four values is 300

62. 0580_s16_ms_22 Q: 20

	Answer	Mark	Partial Marks
(a)	240	2	M1 for any three pairs of products from 2.5×12 , 2.5×26 , 5×15 , 5×10 , 10×2
(b)	29.2 or 29.16 to 29.17	2	M1 for $(5 \times 10 + 10 \times 2) / \textit{their}$ (a) or for their total of the bars above 10 minutes $\div \textit{their}$ (a)

63. 0580_s16_ms_23 Q: 22

	Answer	Mark	Partial Marks
(a)	1.5 nfw	2	B1 for 2.5 or 1
(b)	3.5	2	B1 for 114 soi
(c)	18	2	B1 for 102 soi

64. 0580_w16_ms_23 Q: 6

	Answer	Mark	Partial Marks
	Thursday	2	M1 for 5.4 found or at least two of: 3.8, 3.6 and 4 found

65. 0580_w16_ms_23 Q: 22

	Answer	Mark	Partial Marks
	1 3.5 1	4	B3 for 2 correct B2 for 1 correct or M1 for 2, 7, [...] and 2 seen [FDs]

66. 0580_m15_ms_22 Q: 1

	Answer	Mark	Partial Marks
	Negative	1	

67. 0580_P15_ms_20 Q: 12

	Answer	Mark	Partial Marks
	(a) Negative	1	Ignore embellishments
	(b) Correct point	1	
	(c) (i) Accurate ruled line	1	
	(ii) English mark	1ft	Follow through their (c)(i)

68. 0580_s15_ms_22 Q: 4

	Answer	Mark	Partial Marks
(a)	7	1	
(b)	Any number except 3, 7 or 20	1	

69. 0580_s15_ms_22 Q: 22

	Answer	Mark	Partial Marks
(a)	44	2	M1 for 48 soi
(b)	24	2	M1 for 40 or 16 or both lines drawn from 15 and 45 across and down to the horizontal axis
(c)	5	2	M1 for answer 55 or line or mark on graph indicating 55

70. 0580_s15_ms_23 Q: 17

	Answer	Mark	Partial Marks
(a)	6	1	
(b)	2	2	M1 for 7 identified as the UQ or 5 identified as the LQ or both lines drawn from the 150 and 50 across and down to the horizontal axis
(c)	180	2	M1 for answer 20 or line or mark on graph indicating 20

71. 0580_w15_ms_21 Q: 5

	Answer	Mark	Partial Marks
	7 nfw	2	M1 for 7.5×8 or for $(7 + 8 + 8 + y + 6 + 9 + 10 + 5) \div 8 = 7.5$ or better oe

72. 0580_w15_ms_22 Q: 22

	Answer	Mark	Partial Marks
(a)	3.5 nfw	3	M1 for Σfx soi M1 (dep) for $\div 24$
(b)	2 nfw	3	M2FT for $\frac{their\ 84 + x}{25} = 3.44$ or better or M1 for 25×3.44

73. 0580_w15_ms_23 Q: 24

	Answer	Mark	Partial Marks
(a)	6.2	1	
(b)	5.8	2	M1 for 24 soi
(c)	70	2	M1 for 10 soi

74. 0580_s14_ms_21 Q: 17

	Answer	Mark	Partial marks
(a)	correct working	2	M1 for 1 holiday = 5 or $360 \div 72 = 5$ and B1 for $24 \times 5 [= 120]$ or M2 for $\frac{24}{72} \times 360 [= 120]$ oe
(b)	6 nfw	3	M1 for $150 + 120 + x + 2x = 360$ oe A1 for 30 identified as the required angle

75. 0580_s14_ms_23 Q: 2

	Answer	Mark	Partial marks
	84	2	M1 for $\frac{7}{6+8+9+7}$ or $\frac{360}{6+8+9+7}$

76. 0580_s14_ms_23 Q: 20

	Answer	Mark	Partial marks
(a)	34	1	B1 for 24 or 40 seen
(b)	16	2	
(c)	30	1	
(d)	120	1	

77. 0580_w14_ms_21 Q: 4

	Answer	Mark	Partial marks
(a)	-3	1	FT their numerical mode
(b)	4	1FT	

78. 0580_w14_ms_22 Q: 18

	Answer	Mark	Partial marks
(a)	56	2	B1 for 16 soi or M1 for 72 – <i>their</i> 16
(b) (i)	63 or 63 to 63.5	1	B1 for 49.8 to 50.2 seen or 71.8 to 72.8
(b) (ii)	22 or 21.6 to 23 nfww	2	

79. 0580_w14_ms_23 Q: 4

	Answer	Mark	Partial marks
	30	2	M1 for $2x + 3x + 4x + 90 = 360$ oe

80. 0580_w14_ms_23 Q: 17

	Answer	Mark	Partial marks
(a)	3.08 to 3.22 nfwv	2	B1 for 502.5 to 502.62 or 505.7 to 505.8
(b)	$\frac{16}{200}$ oe	2	B1 for 16 soi or M1 for $\frac{their\ 16}{200}$
(c)	18.5 26 3	2	B1 for 18.5 and 26 B1 for 3

81. 0580_s13_ms_22 Q: 17

	Answer	Mark	Partial marks
(a)	7 correct plots	2	P1 for 5 or 6 correct
(b)	Negative	1	
(c)	ruled line of best fit within tolerance	1	

82. 0580_s13_ms_22 Q: 20

	Answer	Mark	Partial marks
(a)	$10 < h \leq 13$	1	
(b)	12.1[2] www	4	M1 for at least 5 correct mid-values seen M1 for $\sum fx$ where x is in the correct interval
(c)	70, 115, 153, 185, 200	2	M1 for their $\sum fx \div 200$ B1 for 3 or 4 correct

83. 0580_w13_ms_22 Q: 4

	Answer	Mark	Partial marks
	160	2	M1 for $\frac{8}{18} \times 360$ oe

84. 0580_w13_ms_22 Q: 10

	Answer	Mark	Partial marks
	10.1[0]	3	M1 for 1.3199 and 1.3401 seen and M1 for 500×1.3199 or 500×1.3401 or for $500 \times (\text{their highest} - \text{their lowest})$ oe

85. 0580_w13_ms_22 Q: 20

	Answer	Mark	Partial marks
	(a) 4.05 to 4.2	1	
	(b) 2.6 to 2.75	2	B1 for 9.6 seen
	(c) 2.05 to 2.25	2	B1 for [UQ] 5.0 to 5.1 and [LQ] 2.85 to 2.95 seen
	(d) $\frac{5}{48}$	2	M1 for 5

86. 0580_w13_ms_23 Q: 18

	Answer	Mark	Partial marks
	(a) 19–19.1	1	
	(b) 3	2	M1 for 47 seen
	(c) 4.9 to 5.7	2	B1 for [UQ] 21.7 to 22.2 and [LQ] 16.5 to 16.8
	(d) $\frac{45}{50}$ oe	2	B1 for 45 seen or SC1 for $\frac{5}{50}$ isw

87. 0580_s12_ms_21 Q: 6

	Answer	Mark	Partial marks
	7	2	M1 $\frac{8+4+8+9+y}{5} = 7.2$ oe

88. 0580_s12_ms_22 Q: 15

	Answer	Mark	Partial marks
(a)	29 to 29.5	1	
(b)	20 to 20.5	1	
(c)	14 to 14.5	1	
(d)	$\frac{13}{15}$ oe or 0.867	2	

89. 0580_s12_ms_23 Q: 7

	Answer	Mark	Partial marks
	$u = 24(.0), v = 0.6$	2	B1 each

90. 0580_w12_ms_21 Q: 18

	Answer	Mark	Partial marks
(a)	$\frac{7}{25}$ or $\frac{84}{300}$ oe	1	
(b) (i)	62	1	
(ii)	52	1	
(iii)	19 to 20	1	
(iv)	125	2	

91. 0580_w12_ms_22 Q: 6

	Answer	Mark	Partial marks
(a)	4	1	
(b)	2	1	
(c)	1 cao	1	

92. 0580_w12_ms_22 Q: 16

	Answer	Mark	Partial marks
	(a) Points plotted correctly	2	B1 6 or 7 points correct
	(b) Positive	1	
	(c) Line of best fit ruled	1	

93. 0580_w12_ms_23 Q: 12

	Answer	Mark	Partial marks
	40 6	2	B1 for one correct



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