

01.0607_m24_ms_42 Q: 4

Question	Answer	Marks	Partial Marks
(a)	4 points plotted correctly	2	B1 for 2 correct.
(b)	Negative	1	
(c)	$y = -0.325x + 10.6$	2	0.3245... , 10.57... B1 for $y = -0.325x + k$ or $y = kx + 10.6$
(d)	7.06 to 7.09	1	FT <i>their</i> (c)
(e)	Too far outside range of data oe	1	



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02. 0607_m24_ms_42 Q: 8

Question	Answer	Marks	Partial Marks
(a)	Correct graph through 7 points	4	B3 for graph through 5 correct points or B2 for graph through 3 correct points or for all correct heights translated to other point in interval or for correct points plotted not joined or B1 for 6, 22, 46, 82, 102, 116, 120
(b)(i)	2100 to 2300	1	FT from increasing curve.
(b)(ii)	950 to 1150	2	B1 for $1650 \leq [LQ] \leq 1750$ or $2600 \leq [UQ] < 2750$
(c)	68.3 to 71.7	3	B1FT for 34 to 38 M1 for $\frac{their(34\text{ to }38)}{120} [\times 100]$ or $\frac{120 - their(34\text{ to }38)}{120} [\times 100]$

03. 0607_s24_ms_41 Q: 2

Question	Answer	Marks	Partial Marks
(a)(i)	47.4 or 47.375	2	M1 for at least 4 correct mid-points soi
(a)(ii)(a)	[7], 20, 40, 72, [100]	1	
In parts (a)(ii)(b) and (a)(ii)(c) , marks can only be earned with an increasing curve			
(a)(ii)(b)	Correct curve (20, 7), (35, 20), (40, 40), (60, 72), (80, 100)	3	B1 for horizontal plot correct B1FT for at least 4 vertical plots correct
(a)(ii)(c)	24 to 28	2	M1FT for [UQ =] 61 to 63 or [LQ =] 35 to 37
(b)	44	3	M2 for $10 \times 25 + \frac{(20+k)}{2} \times 15 + \frac{(k+80)}{2} \times 10$ [= 27 × 50] oe or M1 for $\frac{(20+k)}{2}$ or $\frac{(k+80)}{2}$

04. 0607_s24_ms_42 Q: 4

Question	Answer	Marks	Partial Marks
(a)	15	3	M2 for $\frac{6 \times 1 + 6 \times 2 + 3 \times 3 + 6 \times 4 + x \times 5 + 4 \times 6}{6 + 6 + 3 + 6 + x + 4} [=3.75]$ or better or M1 for $6 \times 1 + 6 \times 2 + 3 \times 3 + 6 \times 4 + x \times 5 + 4 \times 6$ or better or for $3.75 \times (6 + 6 + 3 + 6 + x + 4)$ or better
(b)(i)	12.8 or 12.78 to 12.79	2	M1 for at least correct four mid-values soi
(b)(ii)(a)	7, 28, 51, 67, 70	2	B1 for 3 correct
In (b), (c) and (d) marks can only be earned with an increasing curve or polygon at least as far as (25, 67 FT)			
(b)(ii)(b)	Correct curve	3	B1 FT for 5 points with correct heights B1 for 5 points with correct t values
(b)(ii)(c)	11 to 12	1	FT
(b)(ii)(d)	26, 27, 28, 29 or 30 cao	2	B1 for 40 to 44 seen or B1FT for <i>their</i> reading from $t = 13$

05. 0607_s24_ms_43 Q: 1

Question	Answer	Marks	Partial Marks
(a)(i)	0	1	
(a)(ii)	2	1	
(a)(iii)	6	1	
(a)(iv)	3	1	
(a)(v)	2.175	2	M1 for $[0 \times 26] + 1 \times 20 + 2 \times 23 \dots$
(b)	14	3	M2 for $\frac{[0 \times 18] + 1 \times 31 + 2 \times 27 + 3 \times 18 + 4 \times n + 5 \times 12 + 6 \times 5}{18 + 31 + 27 + 18 + n + 12 + 5} = 2.28$ oe or M1 for $[0 \times 18] + 1 \times 31 + 2 \times 27 + 3 \times 18 + 4 \times n + 5 \times 12 + 6 \times 5$ or for $(18 + 31 + 27 + 18 + n + 12 + 5) \times 2.28$

06. 0607_m23_ms_42 Q: 1

Question	Answer	Marks	Partial Marks
(a)	9	1	
(b)	10	1	
(c)	6	1	
(d)	4	1	
(e)	5.71 or 5.706 to 5.707	2	M1 for attempt at fx/f

07. 0607_m23_ms_42 Q: 4

Question	Answer	Marks	Partial Marks
	In parts (b), (c) and (d), marks can only be earned with an increasing curve		
(a)	169.31 or 169 or 169.3	2	M1 for use of mid-points e.g. $24 \times 152.5 + 42 \times 157.5 + 84 \times 162.5 \dots$
(b)	[24], 66, 150, 256, 368, 455, [500]	1	
(c)	Correct curve (155, 24) (160, 66) (165, 150) (170, 256) (175, 368) (180, 455) (185, 500)	3	M1 for horizontal plot correct M1 for at least 5 vertical plots correct
(d)(i)	175 to 176.5	1	FT <i>their</i> curve

Question	Answer	Marks	Partial Marks
(d)(ii)	18 to 20	2	B1 for 90 to 100 or M1 for $\frac{\text{their } 90}{500} [\times 100]$ soi

08. 0607_s23_ms_41 Q: 1

Question	Answer	Marks	Partial Marks
(a)(i)	5	1	
(a)(ii)	5	1	
(a)(iii)	6	1	
(a)(iv)	1.5	2	B1 for [u.q. =] 6.5 or [l.q. =] 5
(a)(v)	5.6 or $5\frac{3}{5}$	2	M1 for $(1 \times 3 + 3 \times 4 + 8 \times 5 + 7 \times 6 + 7 \times 5 + 1 \times 8) \div 25$
(b)	72	2	M1 for $\frac{5}{25}[\times 360]$ or $\frac{360}{25}[\times 5]$
(c)	12	2	M1 for $\frac{8}{3}[\times 4.5]$ or $\frac{4.5}{3}[\times 8]$

09. 0607_s23_ms_43 Q: 3

Question	Answer	Marks	Partial Marks
(a)	57.5	1	
(b)	53.8 or 53.83...	1	
(c)	$0.791x + 13.2$	2	M1 for $0.791x + k$ or $kx + 13.2$ or $0.79x + 13$
(d)(i)	53 or 52.7 to 52.8	1	FT <i>their</i> part (b)
(d)(ii)	18 or 17.90 to 17.95	1	FT <i>their</i> part (b)
(e)	50, within range or 50 as 6 is not in range	1	

10. 0607_w23_ms_41 Q: 3

Question	Answer	Marks	Partial Marks
(a)(i)	170	1	
(a)(ii)	22	2	B1 for 158 or 180 seen
(a)(iii)	172	2	B1 for 28 seen
(b)	28, 72, 48 to 52, 52 to 48 [total = 200]	2	B1 for two or three correct
(c)	166.4 to 166.6	2	M1 for 3 or more mid-values soi

11. 0607_w23_ms_42 Q: 4

Question	Answer	Marks	Partial Marks
(a)(i)	4 correct points plotted	2	B1 for 3 correct
(a)(ii)	5.5	1	
(a)(iii)	$[y =] -0.323x + 7.48$	2	B1 for $[y =] -0.323x + k$ or $[y =] kx + 7.48$ or $[y =] -0.32x + 7.5$
(a)(iv)	$[y =] -0.323x + 12.48$	1	FT their $(k) + 5$
(b)	12.5	2	M1 for $x\left(\frac{100-36}{100}\right) = 8$ oe
(c)	3.57 or 3.565...	2	M1 for $5 \times 5 + 4 \times 6 + 3 \times 9 + 2 \times 3$ implied by 82

12. 0607_w23_ms_43 Q: 2

Question	Answer	Marks	Partial Marks
(a)(i)	20	1	
(a)(ii)	13.5	1	
(a)(iii)	12.9 or 12.91 to 12.92	1	
(a)(iv)	16	1	
(a)(v)	17.5	1	
(b)	It's the highest oe	1	

13. 0607_w23_ms_43 Q: 7

Question	Answer	Marks	Partial Marks
(a)(i)	182	1	
(a)(ii)	16	2	B1 for $[uq=]189$ or $[lq=] 173$
(b)	170	2	B1 for 48 seen
(c)	56, 84, 36, 12, 4	2	B1 for 3 or 4 correct
(d)	181	2	M1 for at least 4 mid-points soi

14. 0607_s19_ms_41 Q: 5

Question	Answer	Marks	Partial Marks
(a)	72	2	M1 for $\frac{12}{60} \times 360$
(b)	$\frac{1}{4}$ oe	1	
(c)(i)	$\frac{4}{59}$ oe	3	M2 for $\frac{12}{60} \times \frac{10}{59} + \frac{10}{60} \times \frac{12}{59}$ oe or M1 for $\frac{12}{60} \times \frac{10}{59}$ or $\frac{10}{60} \times \frac{12}{59}$ soi $\frac{2}{59}$

Question	Answer	Marks	Partial Marks
(c)(ii)	$\frac{303}{590}$ oe	3	M2 for $1 - \left(\frac{42}{60} \times \frac{41}{59}\right)$ oe or $\frac{18}{60} \times \frac{42}{59} + \frac{42}{60} \times \frac{18}{59} + \frac{18}{60} \times \frac{17}{59}$ or M1 for $\frac{18}{60} \times \frac{42}{59}$ or $\frac{42}{60} \times \frac{18}{59}$ or $\frac{18}{60} \times \frac{17}{59}$ or $\frac{42}{60} \times \frac{41}{59}$

15. 0607_m22_ms_42 Q: 3

Question	Answer	Marks	Partial Marks
(a)(i)	7	1	
(a)(ii)	4	1	
(a)(iii)	5.5	1	
(a)(iv)	5	1	
(b)	115.65	2	M1 for mid-values soi
(c)	17	4	B3 for $25n + 845 = 25.4n + 838.2$ oe or better or M2 for $3 \times 5 + 11 \times 15 + n \times 25 + 19 \times 35$ $= 25.4(n + 3 + 11 + 19)$ oe or M1 for $3 \times 5 + 11 \times 15 + n \times 25 + 19 \times 35$ oe or $25.4(n + 3 + 11 + 19)$ or for correct trial with integer value of n

16. 0607_s21_ms_42 Q: 3

Question	Answer	Marks	Partial Marks
(a)	$100 < m \leq 120$	1	
(b)	$60 < m \leq 80$	1	
(c)	Any correct statement	1	

Question	Answer	Marks	Partial Marks
(d)	Correct labelled pie chart (labels indicating masses)	4	B3 for pie chart with all angles correct or B2 for pie chart with two angles correct or B1 for 2 correct angles calculated B1 for correct labels on sectors.

17. 0607_s21_ms_43 Q: 5

Question	Answer	Marks	Partial Marks
(a)	178 or 178.4 to 178.5	2	M1 for evidence of mid-values
(b)	$[x =] 7$ $[y =] 18$	3	B2 for $y = 18$ or M1 for $([x \times 0] + y [\times 1] + 30 \times 2 + 45 \times 3) \div 100 = 2.13$ oe If 0 scored SC1 for <i>their x + their y = 25</i>

18. 0607_w21_ms_41 Q: 4

Question	Answer	Marks	Partial Marks
(a)(i)	7	1	
(a)(ii)	5	1	
(a)(iii)	8	1	
(a)(iv)	6.81 or 6.812 to 6.813	2	M1 for $5 \times 16 + 6 \times 18 + 7 \times 25 + 8 \times 11 + 9 \times 6 + 10 \times 4$
(b)	You do not actually know the biggest and the smallest oe	1	

19. 0607_s20_ms_41 Q: 2

Question	Answer	Marks	Partial Marks
(a)(i)	5	1	
(a)(ii)	7.9	1	
(a)(iii)	8	1	
(a)(iv)	9	1	
(b)(i)	1.5	1	
(b)(ii)	1	1	
(b)(iii)	1.4	1	
(b)(iv)	18	2	B1 for 102 stated
(b)(v)(a)	20, 22, 18	3	B1 for each
(b)(v)(b)	1.71 or 1.712 to 1.713	2	M1 for mid-values soi

20. 0607_s20_ms_43 Q: 8

Question	Answer	Marks	Partial Marks
(a)(i)	5	1	
(a)(ii)	4	1	
(a)(iii)	3.46	2	M1 for $\frac{\sum fx}{100}$
(b)(i)	$\frac{20}{9900}$ oe	2	M1 for $\frac{5}{100} \times \frac{4}{99}$ oe
(b)(ii)	$\frac{896}{9900}$	3	M2 for $\frac{16}{100} \times \frac{28}{99} + \frac{28}{100} \times \frac{16}{99}$ oe or M1 for one of the above products
(b)(iii)	$\frac{9558}{9900}$	2	M1 for $1 - \frac{19}{100} \times \frac{18}{99}$ oe

21. 0607_s19_ms_42 Q: 9

Question	Answer	Marks	Partial Marks
(a)	$50 < t \leq 55$	1	Allow e.g. 50 to 55
(b)	50	2	M1 for at least three of 30, 45, 52.5, 65 soi
(c)	Correct histogram	4	B1 for each correct column height. B1 for all widths correct If 0 scored, SC1 for 7, 24, 1.5 seen
(d)(i)	$\frac{30}{240}$ oe	1	
(d)(ii)	$\frac{22350}{57360}$ oe	2	M1 for $\frac{150}{240} \times \frac{149}{239}$
(d)(iii)	40 ... 50	2	M1 for $\frac{k}{240} \times \frac{k-1}{239}$ attempted

22. 0607_s18_ms_42 Q: 4

Question	Answer	Marks	Partial Marks
(a)(i)	198	2	M1 for 3 or more 50, 120, 160, 215, 275 soi
(a)(ii)	$\frac{306}{9900}$ oe or 0.0309 or 0.03090 to 0.03091	2	M1 for $\frac{18}{100} \times \frac{17}{99}$
(a)(iii)	$\frac{2850}{6642}$ oe or 0.429 or 0.4290 to 0.4291	3	M2 for $\frac{57}{82} \times \frac{25}{81} + \frac{25}{82} \times \frac{57}{81}$ oe or M1 for $\frac{57}{82} \times \frac{25}{81}$ or $\frac{25}{82} \times \frac{57}{81}$
(b)(i)	0.04, 0.35, 0.55, 0.5, 0.5	2	B1 for 3 correct
(b)(ii)	Correct histogram	4	FT <i>their</i> fully completed table in (b)(i) with linear scale B1 for suitable scale (must include all heights) B1 for correct column widths B2FT for columns with all heights correct or B1FT for 3 or 4 columns with correct heights

23. 0607_w18_ms_43 Q: 11

Question	Answer	Marks	Partial Marks
(a)	70, 80, 30	2	B1 for 2
(b)	156.25	2	M1 for mid-values soi

24. 0607_s17_ms_42 Q: 11

Question	Answer	Marks	Partial Marks
(a)	12.9 or 12.86 to 12.87	2	M1 for evidence of at least three mid-interval values 9.5, 11, 13, 15.5 soi by 95, 550, 845, 697.5 or 2187.5
(b)	Correct Histogram	4	B1 for correct bar widths no gaps B3 for 4 correct heights and corresponding scale from 0 or B2 for 3 correct heights and corresponding scale from 0 or B1 for 2 correct heights and corresponding scale from 0 or B1 for 3 correct frequency densities soi
(c)(i)	$\frac{198}{2873}$ oe	2	M1 for $\frac{45}{170} \times \frac{44}{169}$
(c)(ii)	$\frac{100}{2873}$ oe	3	M2 for $\frac{10}{170} \times \frac{50}{169} + \frac{50}{170} \times \frac{10}{169}$ oe or M1 for $\frac{10}{170} \times \frac{50}{169}$

25. 0607_s17_ms_43 Q: 10

Question	Answer	Marks	Part Marks
(a)(i)	3.0875	2	M1 for 2.75, 3.125, 3.5 soi
(a)(ii)	Correct histogram	3	B1 correct widths B1 for two correct heights
(b)(i)	$\frac{200}{x} - \frac{200}{x+10} = \frac{20}{60}$ oe	B2	B1 for $\frac{200}{x}$ or $\frac{200}{x+10}$
	$60 \times 200(x+10) - 60 \times 200x = 20x(x+10)$ oe	M1	i.e. correctly clearing fractions or all over common denominator
	$x^2 + 10x - 6000 = 0$	A1	completion with at least one interim line and without any errors or omissions
(b)(ii)	2 h 45 min	4	B2 for 72.6 or 72.62... or M1 for correct use of formula or correct sketch M1 for $200 \div$ their positive x , implied by 2.75.....

26. 0607_w17_ms_41 Q: 1

Question	Answer	Marks	Partial Marks
(a)(i)	18	1	
(a)(ii)	10	1	
(a)(iii)	12.5 cao	1	
(a)(iv)	13.25	1	
(a)(v)	6.5 nfw	2	B1 for 17 or 10.5 seen
(b)	It is the largest oe	1	

27. 0607_w17_ms_43 Q: 4

Question	Answer	Marks	Partial Marks
(a)	171 cao nfw	3	B2 for 171.25 or 171.3 or M2 for complete method with 1 numerical error or M1 for at least 3 mid-pts (60, 135, 165, 195, 230, 275) soi
(b)	$\frac{44}{595}$ cao	3	B2 for $\frac{1056}{14280}$ oe accept 0.0739 or 0.07394 to 0.07395 or M1 for $\frac{33}{120} \times \frac{32}{119}$
(c)(i)	0.1, 0.9, 1.1, 0.5, 0.7, [0.1]	2	B1 for 3 or 4 correct
(c)(ii)	Correct histogram	4	B1 for suitable scale B1 for correct column widths B1FT for 4 or more correct heights

28. 0607_s16_ms_43 Q: 6

Question	Answer	Mark	Part Marks
(a)	166 or 165.6 to 165.7	2	M1 for correct use of mid-pts at least 4 of (150, 157.5, 162.5, 167.5, 172.5, 182.5)
(b) (i)	2.6, 13.2, 16.4, 23.6, 16.4, 1.73	2	B1 for 4 or 5 correct
(b) (ii)	Suitable vertical scale Correct column widths Correct heights	1 1 2FT dep	B1 for 4 or 5 correct dep on at least B1 in (b)(i)

29. 0607_w16_ms_41 Q: 9

Qu.	Answer	Mark	Part Marks
(a)	18, 20, 15, 20, 20	3	B2 for 4 correct B1 for 3 correct
(b)	3.3[0] or 3.295 to 3.296	2FT	M1 for at least 3 mid-values seen, 0.5, 1.5, 2.5, 4, 7.5 If 0 scored, SC1 for 2.26 or 2.258... or for 4.33 or 4.333... or $4.\dot{3}$
(c)	0.649 cao	2	M1 for $\frac{\text{their75}}{\text{their93}} \times \frac{\text{their74}}{\text{their92}}$ (implied by $\frac{5550}{8556}$ or 0.6486 to 0.6487 oe)

30. 0607_w16_ms_42 Q: 1

Question	Answer	Mark	Part Marks
(a)	171	1	
(b)	10	1	
(c)	172	1	
(d)	4	2	B1 for 170 or 174 seen
(e)	172.1	2	M1 for attempt at $\sum fx$ soi by 24099 or 172 or 172.1...

31. 0607_s15_ms_41 Q: 1

Qu.	Answer	Mark	Part Marks
(a)	8	1	
(b)	10	1	
(c)	6	1	
(d)	4.5	2	B1 for [LQ =] 3.5 or [UQ =] 8
(e)	5.375	1	

32. 0607_s15_ms_42 Q: 8

Qu.	Answer	Mark	Part Marks
(a) (i)	Any counted information	1	e.g. numbers in family, numbers of letters delivered, shoe sizes, marks in a test, number of cats, etc.
(ii)	Any measured information	1	e.g. lengths, ages, masses, heights
(b) (i)	160 165	1	
(ii)	165 170	1	
(iii)	166	2	M1 for at least 3 midpoints soi
(iv)	Continuous information oe	1	e.g. lowest/highest anywhere between 150 and 155, using mid-points, grouped data, actual heights unknown, examples of values in an interval

33. 0607_w15_ms_41 Q: 6

Question	Answer	Mark	Part Marks
(a)	1.31 or 1.308...	2	M1 for mid-values soi
(b)	Fully correct histogram	3	B1 for correct widths 0.2, 0.2, 0.2, 0.4 B2 for 4 correct heights or B1 for 2 or 3 correct heights or for 180, 200, 160, 20 seen

34. 0607_m21_ms_42 Q: 4

Question	Answer	Marks	Partial Marks
(a)(i)	$110 < m \leq 130$	1	
(a)(ii)	135.2	2	M1 for mid-values seen or implied
(b)(i)	(8) 16 38 77 104 113 120	2	B1 for 4 or 5 correct FT one error
(b)(ii)	Correct cumulative frequency curve	3	B2 for 6 points correct OR B1FT for 7 heights correct B1 for plotting at upper boundary of interval
(b)(iii)(a)	124 to 127 nfw	1	
(b)(iii)(b)	14 to 21	2	B1 for [LQ =] 115 to 118 or [UQ =] 132 to 136

35. 0607_w21_ms_41 Q: 6

Question	Answer	Marks	Partial Marks
(a)	Correct cumulative frequency curve	4	Through (25,4), (50, 30), (75,90), (100, 178), (125, 284), (150, 300) B3 for one plotting error OR B1 for 4, 30, 90, 178, 284, 300 soi B1FT for CF diagram at correct heights B1FT for CF plotting at RH end of interval FT dependent on increasing curve.
(b)	36 to 44	2	FT <i>their</i> CF diagram B1 FT for LQ = 68 to 72 or UQ = 108 to 112
(c)	33.3 or 33.33... to 36.7 or 36.66 to 36.67	2	B1 for 100 to 110 or M1 for correct percentage calculated from <i>their</i> reading.

36. 0607_w21_ms_42 Q: 4

Question	Answer	Marks	Partial Marks
(a)(i)	190	1	
(a)(ii)	156	1	
(a)(iii)	22	2	B1 for LQ = 140 or UQ = 162
(a)(iv)	28	2	B1 for 172 seen
(b)	150.45	2	M1 for at least 3 mid-values soi

37. 0607_w21_ms_43 Q: 1

Question	Answer	Marks	Partial Marks
(a)(i)	5	1	
(a)(ii)	10	1	
(a)(iii)	6	1	
(a)(iv)	3	2	B1 for LQ = 5 or UQ = 8
(a)(v)	5.93 or 5.927 to 5.928	2	M1 for attempt at $\sum fx$
(b)	7.23 or 7.24 or 7.232 to 7.237	2	M1 for $(320 \times 6.5 - 180 \times \text{their (a)(v)}) / 140$ oe

38. 0607_s20_ms_42 Q: 1

Question	Answer	Marks	Partial Marks
(a)	6	1	
(b)	10	1	
(c)	6	1	
(d)	4	2	B1 for LQ = 4 or UQ = 8
(e)	5.55	2	M1 for attempt at $\sum fx$ (3 or more terms correct)
(f)	$\frac{1}{120} = \frac{13}{1560}$ or 0.0083 recurring or 0.008333...	3	M2 for two of $\left(\frac{1}{40} \times \frac{2}{39}\right) + \left(\frac{2}{40} \times \frac{1}{39}\right) + \left(\frac{9}{40} \times \frac{1}{39}\right)$ or M1 for any one of above products

39. 0607_s20_ms_43 Q: 6

Question	Answer	Marks	Partial Marks
(a)(i)	74	1	
(a)(ii)	18	2	B1 for 64 or 82
(a)(iii)	38	2	B1 for 82

Question	Answer	Marks	Partial Marks
(b)(i)	Correct graph	3	B1 for minimum at (10, h) where $h < 30$, lq and median correct B1 for uq correct B1 for maximum correct
(b)(ii)	Answer in range 50 to 60	2	B1 for 74 or 14 to 24
(b)(iii)	[A is] steeper oe	1	

40. 0607_w20_ms_42 Q: 9

Question	Answer	Marks	Partial Marks
(a)(i)	50	1	
(a)(ii)	24	2	B1 for [l.q. =] 38 or [u.q. =] 62 seen but not as final answer
(b)	68 or 69	3	M1 for $120 \times \frac{15}{100}$ oe (18) M1 for reading at (120 – their 18) seen

41. 0607_s19_ms_41 Q: 4

Question	Answer	Marks	Partial Marks
(a)	27.7 or 27.70 to 27.71	2	M1 for at least 3 midpoints soi
(b)	Correct cf curve	5	Curve/polygon through (10, 0), (20, 16), (25, 44), (30, 76), (35, 100), (40, 114), (50, 120) or B4 for curve through 5 or 6 points or 7 points with no curve or B3 for 'correct curve' through all other consistent points in interval or B2 for all correct cfs or B1 for 4 or 5 correct cfs. If 0 scored SC1 for any cumulative frequency diagram.
(c)(i)	26 to 28	1	Dep on increasing curve FT
(c)(ii)	9 to 11.5	2	Dep on increasing curve FT B1 for $lq = 22$ to 23.5 or $uq = 32.5$ to 33.5
(c)(iii)	10 to 15	2	Dep on increasing curve FT B1 for 105 to 110 seen
(d)(i)	5.6, 6.4, 4.8, 2.8, 0.6	2	B1 for 3 or 4 correct
(d)(ii)	Correct histogram	3	B2 FT for bars with <i>their</i> heights or B1FT for 3 or 4 bars with <i>their</i> heights or bars with all correct widths

42. 0607_w19_ms_41 Q: 1

Question	Answer	Marks	Partial Marks
(a)	6	1	
(b)	7	1	
(c)	7.5	1	
(d)	9.5	1	
(e)	3	1	
(f)	8	1	

43. 0607_w19_ms_41 Q: 8

Question	Answer	Marks	Partial Marks
(a)(i)	Correct curve	3	B2 for two of (2500, 100), (3000, 180), (4000, 200) plotted or B1 for 100, 180, 200 soi
(a)(ii)	600 to 700	2	B1 for [u.q.=] 2750 to 2800 or [l.q. =] 2100 to 2150 not as final answer
(a)(iii)	5 to 15	2	B1 for 185 to 195 seen
(b)(i)	600, 600, 300	2	B1 for two correct
(b)(ii)	118.75	2	M1 for at least two of $25 \times 500 + 75 \times \textit{their} 600 + 150 \times \textit{their} 600 + 300 \times \textit{their} 300$

44. 0607_w19_ms_42 Q: 10

Question	Answer	Marks	Partial Marks
(a)	129.25	2	M1 for at least 3 of 50, 110, 130, 150, 205 seen
(b)	$140 < m \leq 160$	1	
(c)	$\frac{189}{1580}$	3	B2 for 0.12[0] or 0.1196... or $\frac{756}{6320}$ oe or M1 for $\frac{28}{80} \times \frac{27}{79}$

Question	Answer	Marks	Partial Marks
(d)(i)	0.06, 1.1, 1.55, 0.65, 0.0889 or 0.08888 to 0.08889	2	B1 for 3 or 4 correct
(d)(ii)	Correct histogram	3	B1 for correct widths B2 FT for all heights correct or B1 FT for 3 or 4 correct heights

45. 0607_w19_ms_43 Q: 2

Question	Answer	Marks	Partial Marks
(a)	1	1	
(b)	7	1	
(c)	2	1	
(d)	2	2	B1 for 1 or 3 seen but not final answer
(e)	2.22	2	M1 for $(0 \times 17 + 1 \times 23 + 2 \times 20 + \dots) \div 100$

46. 0607_s18_ms_41 Q: 4

Question	Answer	Marks	Partial Marks
(a)(i)	$\begin{array}{r l} 1 & 7899 \\ \hline 2 & 0111122345 \\ & \text{e.g. } 2 3 = 23 \end{array}$	3	B1 for each row B1 for key
(a)(ii)	21 19	2	B1 for each
(a)(iii)	102.8 to 102.9	2	M1 for $\frac{4}{14}$ oe or $\frac{360}{14}$ oe
(b)(i)	2.4	1	
(b)(ii)	0.9	2	B1 for 3 or 2.1 seen
(b)(iii)	20	2	M1 for 180 seen
(c)(i)	253.125 or 253.13 or 253.1 or 253	2	M1 for evidence of at least two mid-values 150, 225, 325 soi by e.g. 50625
(c)(ii)	Correct histogram	4	B1 for bars with correct widths B1 for first bar with height 0.25 B1 for second bar with height 2 B1 for third bar with height 0.5 If 0 scored SC1 for three correct frequency densities seen

47. 0607_s18_ms_43 Q: 1

Question	Answer	Marks	Partial Marks
(a)	10	1	
(b)	6 nfw	2	B1 for 17 or 11 seen
(c)	10	1	
(d)	15	1	
(e)	14.5 or 14.51 to 14.52	2	M1 for $\sum xf$ soi by e.g. 450
(f)	It is the smallest oe	1	

48. 0607_w18_ms_41 Q: 2

Question	Answer	Marks	Partial Marks
(a)	1	1	
(b)	8	1	
(c)	2	1	
(d)	3	2	B1 for either [LQ =] 1, or [UQ =] 4
(e)	2.93 or 2.933...	2	M1 for '∑fx' values
(f)	Assumed all scored 6 oe	1	
(g)	0.182 or 0.1816... or $\frac{1008}{5550}$ oe	3	M2 for $\frac{16}{75} \times \frac{15}{74} + \frac{16}{75} \times \frac{24}{74} + \frac{24}{75} \times \frac{16}{74}$ oe or M1 for one correct product SC1 for $\frac{1560}{5550} = \frac{52}{185} = 0.28108...$

49. 0607_w18_ms_42 Q: 2

Question	Answer	Marks	Partial Marks
(a)(i)	15	1	
(a)(ii)	6	1	
(a)(iii)	11.5	1	
(a)(iv)	11.6 or 11.58...	1	
(a)(v)	7.5	2	B1 for 7 or 14.5 seen
(b)	$\frac{2}{12}$ oe	1	

50. 0607_w18_ms_42 Q: 9

Question	Answer	Marks	Partial Marks
(a)	Correct cf curve through 7 more points	4	B3 for curve through 5 or more correct points or B2 for curve through 4 correct points or correct cfs 2, 6, 12, 24, 46, 80, 108, 120 or B1 for curve through 3 correct points or 5,6 or 7 cfs
(b)(i)	63 to 66	1	Only from increasing diagram
(b)(ii)	17 to 23	2	B1 for LQ = 52 to 55 or UQ = 72 to 75 Only from increasing diagram
(b)(iii)	4 to 8	2	B1 for 112 to 116 seen Only from increasing diagram
(c)	Correct cumulative frequency curve	3	B1 for lowest and highest points plotted correctly B1 for median and lower quartile plotted correctly B1 for upper quartile plotted correctly Maximum 2 marks if points not joined

51. 0607_s17_ms_41 Q: 2

Question	Answer	Marks	Partial Marks
(a)	31.1	2	M1 for evidence of at least 3 correct midpoints
(b)(i)	[7], 20, 40, 72, 100	1	
(b)(ii)	Correct Graph	3	B1 for plotting <i>their</i> points at upper group limit (but points must be increasing vertically) B1 for 4 or 5 correct FT vertical plots (must be increasing)
(c)(i)	32.5 to 34.5	1	FT <i>their</i> graph, dependent on increasing curve
(c)(ii)	16.5 to 20	2	FT <i>their</i> graph, dependent on increasing curve B1 for UQ = 40.5 to 42 or LQ = 22 to 24 or M1 for <i>their</i> UQ – <i>their</i> LQ
(c)(iii)	3 to 4	3	FT <i>their</i> graph, dependent on increasing curve M2 for <i>their</i> 55 th percentile (34 to 36) and <i>their</i> 45 th percentile (31 to 33) or M1 for <i>their</i> 45th percentile (31 to 33) or <i>their</i> 55th percentile (34 to 36) or SC3 for e.g. 32 to 35

52. 0607_w17_ms_42 Q: 6

Question	Answer	Marks	Partial Marks
(a)(i)	$50 < t \leq 60$	1	
(a)(ii)	Correct curve	4	B2 for 3 or 4 correct heights or B1 for 2 correct heights or correct cumulative frequencies seen B1 for plotting correct t co-ordinates, dependent on increasing curve
(a)(iii)(a)	52 to 55	1	FT <i>their</i> curve, dependent on increasing
(a)(iii)(b)	Strict follow through	2	FT <i>their</i> curve, dependent on increasing B1FT for <i>their</i> cum freq value soi
(b)(i)	52.5 or 52.48 to 52.49	2	M1 for evidence of at least three correct mid-values 30, 45, 52.5, 57.5, 70 soi by 10497.5
(b)(ii)	1.3, ... , 11, 8.4, 1.9	2	B1 for 3 correct
(b)(iii)	Correct histogram	3	FT <i>their</i> (ii) B1 for correct widths B2 for correct heights or B1 for three correct heights

53. 0607_s16_ms_41 Q: 12

Question	Answer	Mark	Part Marks
(a)	63.6	2	M1 for midpoints (47.5, 52.5, 57.5, 62.5, 67.5, 72.5, 77.5) soi
(b)	Correct Curve	5	B4 for 5 points correct and joined or for 6 points correct or B3 for at least 3 correct points or B2 for all correct cfs 5, 24, 58, 116, 162, 191, 200 seen or B1 for at least 3 correct cfs or for increasing curve with 6 points plotted at upper bounds If 0 or 1 or 2 scored, SC3 for all points correct but consistently translated to mid-interval or lower bound.
(c) (i)	63 to 64	1	Dependent on increasing curve
(ii)	8.5 to 10.5	2	B1 for [l.qtile. =] 58.5 to 59.5 or [u.qtile. =] 68 to 69 Dependent on increasing curve
(d) (i)	$\frac{12 \text{ to } 16}{200}$ oe	1FT	FT (<i>their</i> 'read off' at 53)/200 dep on increasing cfs
(ii)	$\frac{72}{39800}$ oe	2	M1 for $\frac{k}{200} \times \frac{k-1}{199}$ where $k = 8, 9$ or 10

54. 0607_s16_ms_42 Q: 3

Question	Answer	Mark	Part Marks
(a) (i)	60	1	
(ii)	8	2	B1 for [lq =] 56 or [uq =] 64
(iii)	12	2	M1 for 188 seen
(b)	68.6 or 68.57...	3	M2 for $50 \times \frac{2.4}{1.75}$ oe or M1 for <i>their</i> distance $\div 1.75$ or B1 for distance = 120 or for 2.4 and 1.75 or 144 and 105 or 8640 and 6300 seen If 0 scored, SC1 for 77.2 or 77.24...

55. 0607_w16_ms_42 Q: 5

Question	Answer	Mark	Part Marks
(a)	36.7 or 36.68 to 36.69	2	B1 for at least 3 of (7.5, 17.5, 30, 42.5, 70) soi by 4402.5 Accept 37.2 or 37.18 to 37.19 for full marks and 3 of (8, 18, 30.5, 43, 70.5) soi for B1
(b)	0.8, 3.6, 2.6, 2.7, 1.47 or 1.466 to 1.467, 0.7	3	B2 for 4 or 5 correct or B1 for 2 or 3 correct

56. 0607_s15_ms_43 Q: 8

Qu.	Answer	Mark	Part Marks
(a)	6.8 or 6800	2	M1 for clear evidence of midpoints used soi by figs 68
(b)	Correct plotting 7 correct points and drawing smooth curve	5	All FTS dep on increasing curve B2 for correct cfs seen 8, 29, 60, 83, 93, 98, 100 or SC1 for correct cfs with 1 error B1FT for 7 corrects height plotted B1FT for points plotted at 5, 6, 7, 8, 9, 10, 12 B1 dep FT for smooth curve dependent on increasing and dependent on B1 for heights
(c) (i)	10	2FT	B1 dep for 90 FT dependent on increasing curve
(ii)	1600 to 1900	2FT	B1dep FT for 5.8 (or 5800) or 7.6 (or 7600) seen or answer 1.8 dependent on increasing curve

57. 0607_w15_ms_42 Q: 6

Question	Answer	Mark	Part Marks
(a)	49.3 or 49.33 to 49.34	2	M1 for mid-points soi, at least 3 of (10, 25, 35, 45, 55, 70, 90) implied by 39470
(b)	146, 286, 446, 588, 700, 800	1	
(c)	Correct graph	3	All marks in (c) and (d) are dependent on increasing curve. B1 for plotting points at upper group limit B1FT for correct vertical plots
(d) (i)	46 to 49	1	
(d) (ii)	26 to 30	2	B1 for 33 to 35, or 61 to 63 soi
(d) (iii)	74 to 77	3	M1 for 0.15×800 or 0.85×800 oe M1 for correct use of <i>their</i> 680.

58. 0607_s21_ms_41 Q: 4

Question	Answer	Marks	Partial Marks
(a)	39.8 or 39.81 to 39.82	2	M1 for at least 5 correct mid-points soi
(b)	[41], 73, 117, 167, 232, 280, [300]	1	
In parts (c), (d) and (e), marks can only be earned with an increasing curve			
(c)	Correct curve (10, 41) (20, 73) (30, 117) (40, 167) (60, 232) (80, 280) (100, 300)	3	M1 for horizontal plot correct M1 for at least 6 vertical plots from their table correct

Question	Answer	Marks	Partial Marks
(d)(i)	35 to 38	1	
(d)(ii)	35 to 39	2	B1 for [UQ =] 56 to 59 or [LQ =] 20 to 21
(e)	46 to 50	2	B1 for 195 or 105 seen

59. 0607_s21_ms_42 Q: 6

Question	Answer	Marks	Partial Marks
(a)(i)	31.9	1	
(a)(ii)	0.55	2	M1 for [UQ =] 32.1 or [LQ =] 31.55 seen
(a)(iii)	32.15	2	B1 for 128 seen
(b)(i)	Lower median (average) oe	1	
(b)(ii)	Smaller IQR oe	1	

60. 0607_w16_ms_43 Q: 7

Question	Answer	Mark	Part Marks
(a) (i)	[6], 18, 40, 77, 97, 114, [120]	1	
(ii)	Correct curve	3	All marks in (a) dependent on increasing cumulative frequencies B2FT for 6 points correctly plotted B1FT for 4 or 5 points correctly plotted If 0 scored SC1 for 'correct' curve translated consistently to left.
(iii)	7100 to 7400	1FT	FT <i>their</i> graph
(iv)	750 to 1150	2	B1 for LQ = 6700 to 6900 or UQ = 7650 to 7850
(v)	9 or 10 or 11	1	
(b)	Correct graph	4	B3 for 6 correct heights or B2 for 4 or 5 correct heights or B1 for 2 or 3 correct heights B1 for correct widths If 0 scored B1 for correct frequency densities [0.006], 0.024, 0.044, 0.074, 0.04, 0.017, 0.006

61. 0607_s21_ms_41 Q: 1

Question	Answer	Marks	Partial Marks
(a)	Negative	1	
(b)	48.9[0]	1	
(c)(i)	$-120x + 11\,700$	2	B1 for $-120x + k$ or $-kx + 11\,700$
(c)(ii)	6300 or 6294 to 6320	1	FT <i>their</i> (i)

62. 0607_s21_ms_43 Q: 6

Question	Answer	Marks	Partial Marks
(a)(i)	Positive	1	
(a)(ii)	$1.03x + 1.1[0]$ or $1.027\dots x + 1.095\dots$	2	B1 for $1.03x + k$ or $kx + 1.1[0]$ or $1.027\dots x + k$ or $kx + 1.095\dots$

Question	Answer	Marks	Partial Marks
(a)(iii)	73	1	FT <i>their</i> (a)(ii)
(b)(i)	23	1	
(b)(ii)	54	1	
(b)(iii)	46.5	1	

63. 0607_w21_ms_41 Q: 3

Question	Answer	Marks	Partial Marks
(a)	5 points plotted correctly	2	B1 for 3 or 4 points plotted correctly
(b)	Positive	1	
(c)	$0.587d + 37.4$	2	0.5869 to 0.5870, 37.35 to 37.36 B1 for $0.587d + b$ or $ad + 37.4, a > 0$ or $0.59d + 37$
(d)	53.7 to 53.9	1	FT <i>their</i> (c)
(e)	Too far outside range of data oe	1	

64. 0607_s20_ms_42 Q: 3

Question	Answer	Marks	Partial Marks
(a)(i)	All four points correct	2	B1 for two or three correct points
(a)(ii)	positive	1	
(b)	87	1	
(c)(i)	$[y =] 35.9 + 0.811x$	2	B1 for $35.9 + kx$, or for $a + 0.811x$, If 0 scored SC1 for $36 + 0.81x$
(c)(ii)	141	1	FT <i>their</i> (i)
(c)(iii)	Outside data range oe	1	

65. 0607_s20_ms_43 Q: 2

Question	Answer	Marks	Partial Marks
(a)	Five points plotted correctly	2	B1 for 3 or 4 points plotted correctly
(b)	Positive	1	
(c)(i)	$0.957x - 9.76$	2	or 0.9574..., -9.764 to -9.765 B1 for $0.957x - c$ or $mx - 9.76$
(c)(ii)	36 or 36.2 or 36.19...	1	FT <i>their</i> (i)

66. 0607_w20_ms_41 Q: 1

Question	Answer	Marks	Partial Marks
(a)	positive	1	
(b)(i)	61.2	1	
(b)(ii)	66	1	
(c)(i)	$[y =] 28.7 + 0.61[0]x$	2	B1 for $[y =] 28.7 + kx$ or $[y =]k + 0.61[0]x$ or $29 + 0.6[1]x$
(c)(ii)	53 or 53.1	1	FT <i>their (i)</i>

67. 0607_w20_ms_42 Q: 3

Question	Answer	Marks	Partial Marks
(a)	4 correct points	2	B1 for 2 or 3 correct points
(b)	Negative	1	
(c)	$[y =] -2.84x + 19[.0]$	2	2.844..., 19.03... B1 for $-2.84x + b$ or $ax + 19[.0]$, $a < 0$ or $-2.8x + 19$
(d)	11[.0] or 11.1 or 11.04 to 11.08	1	FT <i>their (c)</i>

68. 0607_w20_ms_43 Q: 3

Question	Answer	Marks	Partial Marks
(a)(i)	5	1	
(a)(ii)	8	1	
(a)(iii)	7.5	1	
(a)(iv)	7	1	
(a)(v)	7.45	2	M1 for at least three of the products 2×5 , 7×6 , 11×7 , 13×8 , 5×9 , 2×10 soi by 298
(b)(i)	Four points correctly plotted	2	B1 for 2 or 3 correct
(b)(ii)	Positive	1	

Question	Answer	Marks	Partial Marks
(b)(iii)	$0.938x + 0.0405$ 0.9376 to 0.9377 0.04049 to 0.04050	2	B1 for $0.938x + k$ or for $kx + 0.0405$ or for $0.94x + 0.04[0]$
(b)(iv)	15 or to 15.0 to 15.1	1	FT
(c)	13.75	2	M1 for at least 3 mid-values seen 5, 12.5, 17.5, 30 implied by 45, 250, 105, 150 or 550

69. 0607_s19_ms_43 Q: 2

Question	Answer	Marks	Partial Marks
(a)(i)	59.4	1	
(a)(ii)	57.2	1	
(b)	$[y =] 21.8 + 0.596x$	2	B1 for $[y =] 21.8 + kx$ or $[y =]k + 0.596x$ or $22 + 0.6[0]x$
(c)(i)	58 or 57.5 to 57.8	1	FT <i>their (b)</i>
(c)(ii)	25 or 24.8 or 24.75 to 24.78	1	FT <i>their (b)</i>
(d)	60 Data within range oe	1	Both needed

70. 0607_w19_ms_43 Q: 4

Question	Answer	Marks	Partial Marks
(a)	5 points plotted correctly	2	B1 for 3 or 4 points correct
(b)	Positive	1	
(c)	$p = 0.78[0]m + 10.4$	2	0.7798 to 0.7799, 10.35... B1 for $p = 0.780m + c$ or $p = km + 10.4$
(d)	54	1	FT <i>their</i> $0.780 \times 56 +$ <i>their</i> 10.4
(e)	$[p =] 0.78[0]m + 15.4$ oe	1	FT <i>their (c)</i>

71. 0607_s18_ms_42 Q: 10

Question	Answer	Marks	Partial Marks
(a)(i)	Points correctly plotted	3	B2 for 5 or 6 correct points B1 for 3 or 4 correct points
(a)(ii)	Positive	1	
(b)(i)	17.1 or 17.09...	1	
(b)(ii)	21.2	1	
(c)(i)	$y = 14.2 + 0.411x$	2	B1 for $14.2 + kx$ or $a + 0.411x$ If 0 scored, SC1 for $14 + 0.41x$
(c)(ii)	22.4 or 22.39 to 22.42	1	FT <i>their</i> (c)(i)
(c)(iii)	cm/ml oe	1	

72. 0607_s18_ms_43 Q: 4

Question	Answer	Marks	Partial Marks
(a)	6 points plotted correctly	3	B2 for 4 or 5 correct or B1 for 2 or 3 correct
(b)(i)	Negative	1	
(b)(ii)	D	1	

Question	Answer	Marks	Partial Marks
(c)(i)	$p = -967d + 6300$	2	or $(-967.4 \text{ to } -967.3)d + 6297 \text{ to } 6298$ or B1 for $-967d + k$ or $kd + 6300$
(c)(ii)	3980 or 4000 or 3975 to 3980	1	FT
(c)(iii)	[Too] far outside range of data oe	1	

73. 0607_w18_ms_43 Q: 5

Question	Answer	Marks	Partial Marks
(a)	7.5 9	2	B1 for each
(b)	Positive	1	
(c)	$[y =]0.681 \text{ (or } 0.6812\dots)x$ $+ 1.98 \text{ (or } 1.982\dots)$	2	B1 for $0.681 \text{ (or } 0.6812\dots)x + k$ or for $kx + 1.98 \text{ (or } 1.982\dots)$ or for $0.68x + 2[.0]$

74. 0607_s17_ms_42 Q: 3

Question	Answer	Marks	Partial Marks
(a)	6 points correct	3	B2 for 4 or 5 correct or B1 for 2 or 3 correct
(b)	Positive	1	
(c)(i)	$y = 0.787x + 0.356$ final answer	2	0.7874 to 0.7875, 0.3555 to 0.3556 B1 for one correct or for $y = 0.79x + 0.36$ final answer
(c)(ii)	5.4[0]	1	FT from <i>their</i> (c)(i)

75. 0607_s17_ms_43 Q: 3

Question	Answer	Marks	Part Marks
(a)(i)	6.5	1	
(a)(ii)	4.5	1	
(a)(iii)	3	1	
(b)(i)	Positive	1	
(b)(ii)	13	1	
(b)(iii)	15.5	1	
(b)(iv)	$7.32t - 55.3$	2	$(7.322 \text{ to } 7.323)t - (55.25\dots)$ B1 for $7.32t + k$ or $kt - 55.3$ or SC1 for $7.3t - 55$
(b)(v)	Correct line (positive gradient and not below the x-axis)	2	B1 for positive gradient

76. 0607_w17_ms_41 Q: 4

Question	Answer	Marks	Partial Marks
(a)	6 points correctly plotted	2	\pm small square, B1 for 4 or 5 points correct.
(b)	Positive	1	
(c)(i)	$10.6x + 5.7[0]$	2	or $a = 10.57\dots, b = 5.702\dots$ B1 for $y = ax + b$ with either a or b correct. SC1 for $11x + 5.7$
(c)(ii)	29[.0] or 28.95 to 29.02	1	Strict FT (<i>their</i> 10.6×2.2) + <i>their</i> 5.7
(c)(iii)	[Too far] outside range of data oe	1	

77. 0607_w17_ms_43 Q: 3

Question	Answer	Marks	Partial Marks
(a)(i)	Points correctly plotted	2	B1 for 2 or 3 correct points
(a)(ii)	Negative	1	

Question	Answer	Marks	Partial Marks
(b)(i)	8	1	
(b)(ii)	18.3 or 18.33 or $18\frac{1}{3}$	1	
(c)(i)	$y = 97[.0] - 9.84x$	2	or 97.02... and -9.836... B1 for $97[.0] + kx$, or $a - 9.84x$, If 0 scored SC1 for $97 - 9.8x$
(c)(ii)	21.2 to 21.3 or 21	1	Strict FT <i>their</i> (c)(i) provided a linear expression

78. 0607_s16_ms_41 Q: 5

Question	Answer	Mark	Part Marks
(a)	4 points plotted correctly	2	B1 for 2 or 3 correct
(b)	Positive	1	Ignore comments on strength
(c) (i)	75	1	
(ii)	16.6	1	
(d) (i)	$0.168t + 3.96$	2	or $m = 0.1684$ to 0.1685 , $c = 3.963$ to 3.964 B1 for $n = mt + c$ with either m or c correct or SC1 for $0.17t + 4[.0]$
(ii)	18	1FT	FT from <i>their</i> equation with $t = 85$, answer rounded or truncated to nearest whole number

79. 0607_s16_ms_43 Q: 10

Question	Answer	Mark	Part Marks
(a) (i)	Points correctly plotted	3	B2 for 4 or 5 correct points B1 for 2 or 3 correct points
(ii)	Positive	1	
(b) (i)	32.7	1	
(ii)	23.6	1	
(c) (i)	$[y =] -5.57 + 0.892x$	2	B1 for $-5.57 + kx$, or B1 for $a + 0.892x$, If 0 scored SC1 for $-5.6 + 0.89x$
(ii)	21.2 or 21.19...	1FT	FT <i>their</i> (c)(i) using $x = 30$
(iii)	Outside range oe	1	

80. 0607_w16_ms_42 Q: 3

Question	Answer	Mark	Part Marks
(a)	Positive	1	
(b) (i)	12.15	1	
(ii)	66	1	
(c) (i)	$y = 37.2 + 2.37x$	2	
(ii)	82 or 82.2...	1	FT <i>their</i> (i)

81. 0607_s15_ms_41 Q: 9

Qu.	Answer	Mark	Part Marks
(a) (i)	All points correctly plotted	2	B1 for 4 or 5 correct points
(ii)	Positive	1	
(b) (i)	4.4 cao final answer	1	
(ii)	98	1	
(c) (i)	31.7 + 15.1x or 31.66 to 31.67 + (15.07 to 15.08)	2	B1 for 31.7 (or 31.66 to 31.67) + px or $q + (15.1$ (or 15.07 to 15.08)) x or SC1 for $15x + 32$
(ii)	91.94 to 92.1	1FT	FT <i>their</i> (c)(i)

82. 0607_s15_ms_42 Q: 5

Qu.	Answer	Mark	Part Marks
5	(a) 5 points plotted correctly	2	B1 for 3 or 4 correct
	(b) Positive	1	Ignore comments on strength
	(c) (i) 63.6	1	
	(ii) 42	1	Accept 42 000
	(d) $1.04x - 24.4$	2	or $a = 1.044\dots$, $b = -24.41$ to -24.40 B1 for $y = ax + b$ with either a or b correct or SC1 for $[1.[0]]x - 24$
	(e) 58 800 or 58 790 to 59 150	1FT	FT from <i>their</i> equation

83. 0607_w15_ms_42 Q: 3

Question	Answer	Mark	Part Marks
(a)	(i) 57.2	1	
	(ii) 56.8	1	
(b) (i)	$y = 25.9 + 0.54[0]x$ or 25.92 to 25.93, 0.5397...	2	B1 for $25.9 + mx$, or B1 for $c + 0.54x$, If 0 scored, SC1 for $26 + 0.5x$ or better
(ii)	53 or 53.4 to 53.5	1FT	FT <i>their</i> (b)(i)

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Question	Answer	Mark	Part Marks
(a)	(i) $60 < v \leq 70$	1	
	(ii) 65.9 or 65.93 to 65.94	2	M1 for at least 3 correct mid-values seen
	(iii) 0.1, 2.5, 4.6, 8.2, 0.4 oe	3	B2 for 3 or 4 correct or B1 for 2 correct
(b)	$-0.286r + 35.4$ or $(-0.2861\dots)r + (35.38 \text{ to } 35.39)$	2	B1 for $(-0.286 \text{ or } -0.2861\dots)r + k$ or for $kr + (35.4 \text{ or } 35.38 \text{ to } 35.39)$ or SC1 for $-0.29r + 35$