01. 0607_m23_ms_22 Q: 4

Question	Answer	Marks	Partial Marks
	22.5 oe	2	**M1** for $8x = 180$ oe

02. 0607_m23_ms_22 Q: 9

Question	Answer	Marks	Partial Marks
	15	2	**M1** for $\frac{360}{24}$ oe

03. 0607_s23_ms_21 Q: 7

Question	Answer	Marks	Partial Marks
	9	3	**M2** for $[n =] \frac{360}{their(180-140)}$ or $40n = 360$ or **M1** for 180 – 140 or $\frac{180(n-2)}{n} = 140$

04. 0607_s23_ms_21 Q: 10

Question	Answer	Marks	Partial Marks
	79	2	**B1** for 79, 39 or 62 correctly added to diagram or **M1** for 180 – (39 + 62) oe

05. 0607_s23_ms_22 Q: 5

Question	Answer	Marks	Partial Marks
	105	2	**B1** for $\frac{360}{12}$ or 30 [for 1 hour] or 15 [for half an hour] or 255 seen

06. 0607_s23_ms_22 Q: 12

Question	Answer	Marks	Partial Marks
(a)	22	1	
(b)	123	1	**FT** 145 – *their*(**a**)
(c)	57	1	**FT** 35 + *their*(**a**)

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07. 0607_s23_ms_22 Q: 16

Question	Answer	Marks	Partial Marks
(a)	Two from $\angle ADE = \angle ABC$ Corresponding $\angle$s $\angle AED = \angle ACB$ Corresponding $\angle$s $\angle DAE = \angle BAC$ common oe **[And** Angles equal]	**2**	**B1** for 1 pair with a reason or 2 pairs with no/incorrect reason
(b)	4 : 25	**1**	

08. 0607_s23_ms_23 Q: 2

Question	Answer	Marks	Partial Marks
	79	**1**	

09. 0607_s22_ms_21 Q: 12

Question	Answer	Marks	Partial Marks
(a)	116	**2**	**B1** for angle $DBC = 32^o$ allow angle $BDC = 32^o$
(b)	84	**2**	**B1** for angle $ABC = 42^o$ soi or for angle $OCA = 48^o$ soi

10. 0607_s22_ms_22 Q: 6

Question	Answer	Marks	Partial Marks
	63	**1**	

11. 0607_s22_ms_23 Q: 6

Question	Answer	Marks	Partial Marks
	24	**2**	**M1** for 360 / 15 OR **B1** for 156

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12. 0607_s22_ms_23 Q: 9

Question	Answer	Marks	Partial Marks
(a)	$\angle EFD = \angle BFC$ (Vert) opposite $\angle$s $\angle EDF = \angle BCF$ Alternate $\angle$s $\angle DEF = \angle CBF$ Alternate $\angle$s OR Two of the above AND 3 angles are equal, triangles are similar	**2**	**B1** for 1 pair with reason or all 3 equal angle pairs identified
(b)	$3\frac{3}{4}$ oe	**2**	**M1** for $\frac{EF}{3} = \frac{5}{4}$ oe

13. 0607_w22_ms_21 Q: 9

Question	Answer	Marks	Partial Marks
(a)	107	**1**	
(b)	10	**2**	**B1** for $BAF = 73$ or $BAC = 63$

14. 0607_w22_ms_22 Q: 2

Question	Answer	Marks	Partial Marks
	165	**3**	**M2** for $180 - \frac{360}{24}$ or $\frac{(24-2)180}{24}$ or **M1** for $\frac{360}{24}$ or $(24-2) \times 180$

15. 0607_w22_ms_22 Q: 13

Question	Answer	Marks	Partial Marks
(a)	55 Alternate Segment	**2**	**B1** for each
(b)	125 Opposite angles in cyclic quadrilateral	**2**	**FT** 180 – *their* 55 **B1** for each

16. 0607_w22_ms_23 Q: 1

Question	Answer	Marks	Partial Marks
	[k =] 125 [m =] 55	**2**	**B1** for each

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17. 0607_w22_ms_23 Q: 11

Question	Answer	Marks	Partial Marks
(a)	25	**1**	
(b)	40	**1**	
(c)	60	**1**	
(d)	60	**1**	**FT** *their* (c)

18. 0607_m21_ms_22 Q: 9

Question	Answer	Marks	Partial Marks
(a)	76	**1**	
(b)(i)	25	**1**	
(b)(ii)	80	**1**	

19. 0607_s21_ms_21 Q: 6

Question	Answer	Marks	Partial Marks
	12	**2**	**M1** for $360 \div 30$ or $180 - \frac{(30-2)\times 180}{30}$

20. 0607_s21_ms_22 Q: 5

Question	Answer	Marks	Partial Marks
	75	**2**	**B1** for angle EBC or angle $FCD = 65$ or for angle $BCF = 115$ or for angle $BEC = 75$

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21. 0607_s21_ms_22 Q: 9

Question	Answer	Marks	Partial Marks
	15	**3**	**B1** for 120° or 60° **M1** for $360 = n(84 - \textit{their}\ 60)$ or better or $\frac{(n-2)180}{n} = 360 - (84 + \textit{their}\ 120)$

22. 0607_s21_ms_23 Q: 4

Question	Answer	Marks	Partial Marks
	Rhombus	**1**	

23. 0607_s21_ms_23 Q: 5

Question	Answer	Marks	Partial Marks
	160	1	

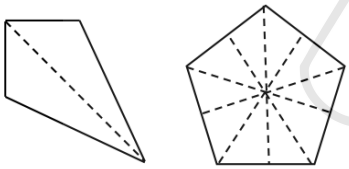
24. 0607_s21_ms_23 Q: 7

Question	Answer	Marks	Partial Marks
	162	3	**M2** for $180-\frac{360}{20}$ or $\frac{180(20-2)}{20}$ or **M1** for $\frac{360}{20}$ or $180(20-2)$ oe

25. 0607_s21_ms_23 Q: 15

Question	Answer	Marks	Partial Marks
	110	2	**B1** for angle $RST = 70$ or angle $RTA = 110$

26. 0607_w21_ms_21 Q: 3

Question	Answer	Marks	Partial Marks
		2	**B1** for each diagram

27. 0607_w21_ms_22 Q: 2

Question	Answer	Marks	Partial Marks
	2 0 oe	2	**B1** for each

28. 0607_w21_ms_22 Q: 7

Question	Answer	Marks	Partial Marks
	290	2	**M1** for 180 + 110 or for a diagram with a correct angle at *P*.

29. 0607_w21_ms_22 Q: 13

Question	Answer	Marks	Partial Marks
	63	2	**M1** for other angle at tangent = 63° or other angle in triangle = 40°

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30. 0607_w21_ms_23 Q: 8

Question	Answer	Marks	Partial Marks
(a)	1800	2	**M1** for $(2\times12-4)\times90$ or $(12-2)\times180$ oe
(b)	$\frac{360}{180-x}$	2	**M1** for $180-x$ or $180n-360=nx$

31. 0607_s20_ms_21 Q: 9

Question	Answer	Marks	Partial Marks
	55	2	**B1** for angle $C=70$ or **M1** for $\frac{1}{2}(180-their\,C)$

32. 0607_s20_ms_22 Q: 6

Question	Answer	Marks	Partial Marks
	20	2	**M1** for $\frac{180}{2+3+4}$

33. 0607_s20_ms_22 Q: 9

Question	Answer	Marks	Partial Marks
	12	3	**M2** for $\frac{360}{180-150}$ oe or **M1** for $180-150$

34. 0607_s20_ms_23 Q: 4

Question	Answer	Marks	Partial Marks
(a)	Parallelogram	1	
(b)	Kite or Isosceles Trapezium	1	

35. 0607_s20_ms_23 Q: 9

Question	Answer	Marks	Partial Marks
(a)	82 Opposite angles of a cyclic quadrilateral [add up to 180] oe	2	**B1** for each
(b)	No and any mention of Alternate Segment Theorem oe	1	

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36. 0607_w20_ms_22 Q: 1

Question	Answer	Marks	Partial Marks
	Rhombus [only]	1	

37. 0607_w20_ms_22 Q: 12

Question	Answer	Marks	Partial Marks
(a)	70	1	
(b)	70	1	
(c)	30	1	*their*(**b**) – 40

38. 0607_w20_ms_23 Q: 12

Question	Answer	Marks	Partial Marks
	68	3	**M1** for correct use of parallel lines to give a correct angle at *B* or *C*. **M1** for correct use of isosceles triangle

39. 0607_s19_ms_21 Q: 3

Question	Answer	Marks	Partial Marks
	28	2	**B1** for *CED* = 33 or *ECD* = 119 or *ECB* = 61 or *BFD* = 97

40. 0607_s19_ms_22 Q: 1

Question	Answer	Marks	Partial Marks
	[*x* =] 65 [*y* =] 115	2	**B1** **B1 FT** 180 – *their x*

41. 0607_s19_ms_22 Q: 2

Question	Answer	Marks	Partial Marks
	9	2	**M1** for $\frac{360}{40}$

42. 0607_s19_ms_22 Q: 15

Question	Answer	Marks	Partial Marks
	[*a* =] 25 [*b* =] 100	2	**B1** for each

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43. 0607_s19_ms_23 Q: 3

Question	Answer	Marks	Partial Marks
	61	2	**M1** for $180 - 132$ or **M1** for $132 - 71$

44. 0607_s19_ms_23 Q: 5

Question	Answer	Marks	Partial Marks
	Rhombus	1	

45. 0607_s19_ms_23 Q: 16

Question	Answer	Marks	Partial Marks
	$[y =] 135 + 0.5x$	3	**M2** for $180 - y = 45 - 0.5x$ or **M1** for $90 - x$ as angle at centre

46. 0607_w19_ms_21 Q: 12

Question	Answer	Marks	Partial Marks
(a)	80	1	
(b)	72	1	

47. 0607_w19_ms_22 Q: 4

Question	Answer	Marks	Partial Marks
	36	3	**M2** for $\frac{360}{180-170}$ or **M1** for $180 - 170$

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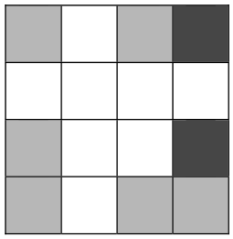
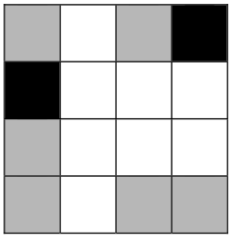
48. 0607_w19_ms_22 Q: 6

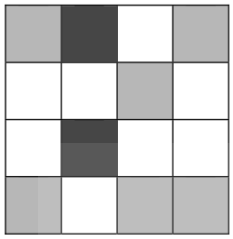
Question	Answer	Marks	Partial Marks
	76	2	**M1** for $(180 - 28) \div 2$

49. 0607_w19_ms_22 Q: 7

Question	Answer	Marks	Partial Marks
	0.75 oe	1	

50. 0607_w19_ms_23 Q: 3

Question	Answer	Marks	Partial Marks
(a)		1	or 

Question	Answer	Marks	Partial Marks
(b)		1	

51. 0607_w19_ms_23 Q: 6

Question	Answer	Marks	Partial Marks
	40, 70, 100	2	**B1** for any two.

52. 0607_w19_ms_23 Q: 13

Question	Answer	Marks	Partial Marks
	$BC = DA$ [opp] sides of parallelogram	1	
	$\angle BCQ = \angle DAP$ Alternate angles	1	
	$AP = QC$ and SAS	1	If 0 scored, **SC1** for $BC = DA$ and $\angle BCQ = \angle DAP$ and $AP = QC$

53. 0607_s18_ms_21 Q: 2

Question	Answer	Marks	Partial Marks
(a)	232 to 236	1	
(b)	100	1	
(c)	20	2	**M1** for $\frac{360}{18}$ oe If 0 scored **SC1** for 160 seen

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54. 0607_s18_ms_21 Q: 7

Question	Answer	Marks	Partial Marks
	[x =] 70 [y =] 110	2	**B1** for each If 0 scored **SC1** for *their x* + *their y* =180

55. 0607_s18_ms_22 Q: 1

Question	Answer	Marks	Partial Marks
	trapezium	1	

56. 0607_s18_ms_22 Q: 2

Question	Answer	Marks	Partial Marks
	63	1	

57. 0607_w18_ms_21 Q: 2

Question	Answer	Marks	Partial Marks
	72	1	

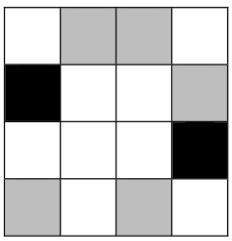
58. 0607_w18_ms_21 Q: 7

Question	Answer	Marks	Partial Marks
	45	2	**M1** for $360 \div 8$ or $180 - \frac{6}{8} \times 180$

59. 0607_w18_ms_21 Q: 13

Question	Answer	Marks	Partial Marks
	[0]54	2	**M1** for $234 - 180$

60. 0607_w18_ms_22 Q: 3

Question	Answer	Marks	Partial Marks
		1	

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61. 0607_w18_ms_22 Q: 12

Question	Answer	Marks	Partial Marks
(a)	70	**2**	**B1** for $\angle DOC = 140$
(b)	120	**1**	
(c)	60	**2**	**B1** for reflex $\angle COD = 220$ or $\angle OCA = 30$

62. 0607_w18_ms_23 Q: 9

Question	Answer	Marks	Partial Marks
(a)	0	**1**	
(b)	2	**1**	

63. 0607_w18_ms_23 Q: 11

Question	Answer	Marks	Partial Marks
(a)	[x =] 48 [y =] 42	**2**	**B1** for each **FT** 90 − *their x*
(b)	[p =] 44 [q =] 51	**2**	**B1** for each

64. 0607_s17_ms_22 Q: 4

Question	Answer	Marks	Partial Marks
	0 2	**2**	**B1** for each (must be correct order)

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65. 0607_s17_ms_22 Q: 8

Question	Answer	Marks	Partial Marks
(a)	*BCD*	**1**	Must be that order
(b)	9	**2**	**M1** for $\frac{x}{6} = \frac{6}{4}$ oe

66. 0607_s17_ms_22 Q: 12

Question	Answer	Marks	Partial Marks
(a)	35	**1**	

Question	Answer	Marks	Partial Marks
(b)	130	1	**FT** 165 – *their* (a)

67. 0607_s17_ms_23 Q: 9

Question	Answer	Marks	Part Marks
	[p =] 75 [q=]105	2	**B1** for each

68. 0607_w17_ms_21 Q: 9

Question	Answer	Marks	Partial Marks
(a)	110	2	**B1** for reflex angle AOD = 220 or AXD = 70

Question	Answer	Marks	Partial Marks
(b)	45	2	**FT** 155 – *their* 110 **B1** for angle BCD = *their* 110 + 25

69. 0607_w17_ms_22 Q: 1

Question	Answer	Marks	Partial Marks
	120	2	**B1** for any correct angle marked on the diagram or stated oe

70. 0607_w17_ms_22 Q: 10

Question	Answer	Marks	Partial Marks
(a)	130	1	
(b)	72	2	**M1** for $6x + 9x = 180$ oe implied by 12 seen

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71. 0607_w17_ms_23 Q: 3

Question	Answer	Marks	Partial Marks
	72	2	**M1** for $\frac{180-36}{2}$

72. 0607_w17_ms_23 Q: 7

Question	Answer	Marks	Partial Marks
	18	3	**M2** for $\frac{360}{180-160}$ oe or **M1** for $180-160$