

School Certificate Mathematics 2004

Quick Answers

Disclaimer

These answers are intended as a quick guide only. To save space there are no worked solutions or diagrams. For greater detail please refer to fully worked solutions.

Section 1

1. 2.
2. $\frac{3}{10}$
3. The shaded area is called a sector.
This area is bounded by two radii and an arc.
4. 60.
5. Because there are two different ways to get a head and a tail, but only one way to get 2 heads, and only one way to get 2 tails.
6. 15.
7. 762.
8. 7:33 pm.
9. 120.
10. 83.5
12. New score must be 8 more than Old score.
13. 32 cm.
14. 34.
15. The number must be bigger than 5 and less than 13.
16. 9 and 13.
18. 16.
19. 25%.
20. Approximately 55 cm^2 .
21. $5 \times 6 \times 7 \times 8 + 1 = 41^2$
23. Acute-angled.
25. Many possible answers, such as:
 $4 + 3 - 5 = 2$.

Section 2 – Part A

26	A
27	C
28	C
29	D
30	B
31	A
32	A
33	D
34	C
35	D
36	D
37	C
38	D
39	A
40	C
41	D
42	B
43	A
44	B
45	B
46	A
47	D
48	B
49	B
50	D
51	C
52	D
53	A
54	C
55	D
56	D
57	D
58	B
59	A
60	A
61	C
62	D
63	B
64	A
65	B
66	A
67	B
68	A
69	C
70	C
71	B
72	B
73	C
74	A
75	C
76	a,b,c
77	a,d
78	b,d
79	b,c,d
80	a,b,c

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Section 2 – Part B

Question 81

- (a) $\frac{6}{36} = \frac{1}{6}$.
- (b) 50.
- (c) Zero.
- (d) Two (0,0 and 2,2).
- (e) (4,3) or (3,4) or (5,3) or (4,4) or (3,5).

Question 82

- (a) 135.
- (b) four.
- (c) 750 cm^2 .

Question 83

- (a) 1.6
- (b) $78.54\% \approx 79\%$.
- (c) (0,5).
- (d) 15.7 cm^2 .
- (e) Approximately 25 grams.

Question 84

- (a) 270.
- (b) 19 440.
- (c) 21 870.
- (d) Top left graph.
- (e) After 9 minutes.