

School Certificate Mathematics 2005

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. 6 cm^3 .
2. 4
3. 15
4. 3.36
6. 15.
7. 127.
8. 154 cm^2 (using $\pi \approx \frac{22}{7}$).
9. 6.004
11. 120° .
12. 30.
14. Any number bigger than 5.4 and less than 7.5
15. 0.55
16. Spinner A has only 2 odd numbers out of 6, while spinner B has 4 odd numbers out of 6.
17. 18 units^2 .
18. 3.
19. 6 and 7.
20. 2:3.
22. 1:2.
23.

$$2p + 6 = 76$$
 OR

$$2p + 6 + 3p - 1 = 180$$
 OR

$$3p - 1 + 76 = 180$$
24. $\frac{1}{4}$.
25. $10^{10} - 10^5 + 1 = 9\,999\,900\,001$.

Section 2 – Part A

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

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Section 2 – Part B

Question 81

- (b) 8.5 cm.
- (c) 12 cm^2 .
- (d) Many possible answers, such as (5,1).
Any point on the line $y = 6 - x$ or on the
line $y = -x - 10$ would work.

Question 82

- (b) $\frac{1}{6}$.
- (c) (i) 7 and 0.18.
(ii) \$1045.

Question 83

- (a) 1.6
- (b) \$24.
- (c) (i) 1 Euro = \$A1.82, or 0.55 Euro = \$A1.

Question 84

- (b) $4\frac{1}{3} \text{ km/h}$.
- (c) 6:05 am.
- (d) 1.89 m/s.