

School Certificate Mathematics 2002

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. 5.26
2. \$3.85
3. 4.
4. 48.
5. $6\frac{1}{4}$.
6. For every 3 circles on the fabric, there are 3 stars.
7. 0.5°C .
8. About 18 or 19 cm^2 .
9. $8 - 6 \div 3 = 6$.
10. $p = 5\frac{1}{2}$.
11. 8 Litres / 100 km.
12. The square must contain 1, and the triangle can have 7, 8 or 9.
14. \$34.
15. 5.
16. 15.
17. 21.
18. 5 or -5 .
20. $10^3 - 9^3 = 10^2 + 10 \times 9 + 9^2 = 271$.
21. 2 kg.
22. 3.
23. Any 3 numbers that have a product of 160. eg 2 cm, 8 cm and 10 cm.
24. 6.

Section 2 – Part A

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

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Section 2 – Part B

Question 81

- (a) 8 hours and 15 minutes.
- (b) 15, 25, 35.
- (c) \$95.
- (e) No. Boats 4U would have cost \$108.

Question 82

- (a) 80 metres.
- (b) 1 cm = 2 m, OR 1:200.
- (c) 7 metres.
- (d) 83 metres.
- (e) 11 goals.

Question 83

- (a) 57° .
- (c) About 35 cm^2 .
- (e) Diagonals of a kite always meet at right angles, while they do not necessarily do so in a parallelogram.

OR

One diagonal of a kite always bisects the angles through which it passes (and bisects the other diagonal), while neither diagonal necessarily does so in a parallelogram.

Question 84

- (b) 30.
- (c) 90.
- (d) $n(n-1)$ OR $n^2 - n$.
- (e) 16.