

School Certificate Mathematics 2009

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
2. 1
3. \$30
5. 8:28 pm
6. 94 cm.
7. 21
8. $\frac{13}{90}$
9. 5%
10. $(6, -3)$
11. \$27
12. 0.125
13. 10:15 am.
14. \$28
15. The teams do not necessarily all have an equal chance of winning. Some teams will be better than others.
16. 180 cm.
17. 5.
18. 40 cm.
19. 18 minutes.
20. 44 m.
21. 16
22. 160 g.
23. 7
24. 45

Section 2 – Part A

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

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Section 2 – Part B

Question 81

- (a) $\$25 / \text{m}^2$
- (b) (i) 0.3
- (ii) $9 \div 0.3 = 30$
- (iii) Number of tiles along line CB is
 $18 \div 0.3 = 60$
- Number of tiles needed is
 $30 \times 60 = 1800$
- 10% extra added on is
 $1800 + 180 = 1980$

Question 82

- (a) equilateral
- Angles on a straight line
OR
Adjacent supplementary angles
- (b) 25°
- 130° (Angle sum of a triangle)

Question 83

- (b) 6 cm
- (c) mode
- (d) There are 20 students in the class.

Total length of all students' hands spans:
 $20 \times 21.75 = 435$

Teacher's hand span is
 $462 - 435 = 27$ cm.

Question 84

- (a) 30
- (b) 6 units.
- (c) 19 units.
- (d) 36
- (e) $1^3 + 2^3 + 3^3 + \dots + n^3$