

# School Certificate Mathematics 2008

## 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. multiplication
2.  $\frac{1}{6}$
3. \$23
4. 8°C
5. 76
6. 3 and 4.
7. (2,-1).
8.  $37^2 = 1600 - 6 \times 40 + 9$
9.  $\frac{1}{10}$
10. 3
11. 10 yellow marbles.
12. \$3 300 000 (3.3 million dollars)
13. 0.0025
14. 148 cm.
15. Both  $\frac{19}{20}$  and  $\frac{14}{15}$  are very close to 1, therefore when added together the answer will be close to 2.
16. Corresponding angles on parallel lines are equal.
17. 20%
18. 10 metres.
19. 83 038
20.  $E$  bisects  $AC$ .
21. 1.7%
22. Many possible answers, such as:  
2, 3, 5, 6
23. 25.7 cm.
24. 108

### Section 2 – Part A

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

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**Section 2 – Part B**

Question 81

- (a) Approximately  $13^\circ$ .
- (b) Approximately 90 metres.
- (c) 2.8 metres per second.

Question 82

- (a) 3
- (b)  $\frac{2}{20}$  or  $\frac{1}{10}$  or 10%
- (d) Naren's total score is currently 58. To score an overall mean greater than 4, his overall total must be greater than 160. This would require a total of more than 102 from the next 20 arrows. This is impossible, because even if every arrow scores 5, this will only give a total of 100.

Question 83

- (a) \$1.41 (to the nearest cent).
- (b) (i) \$507.30  
(ii) Option B by \$17.70
- (c) During the 11<sup>th</sup> year.

Question 84

- (a) (i) 10  
(ii) 9 players.
- (b)  $\frac{2}{9}$
- (c) Approximately 14 metres, because the longest pass would be across the diameter of the circle.