

School Certificate Mathematics 2007

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

- 5.6
- $8m$
- $23^2 + 2 \times 23 + 1$
- 18
- 150 cm^3 .
- $3^2, 2^4, 5^2, 3^3$.
- 33 units².
- $(-2, 8)$.
- $n < -6$.
- 16.
- Because the triangles are similar.
- 16 hours.
- 9.
- 3 and 77, OR 7 and 33, OR 11 and 21
- 40.
- 6×10^{-2}
- 2
- 6
- $3p - 1$
- $m = -10$
- 75°

Section 2 – Part A

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

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Section 2 – Part B

Question 81

- (a) It is the most common number of goals.
- (b) $\frac{3}{7}$.
- (c) $5\frac{5}{7}$.
- (d) One score of 10 and the other two between 8 and 10 inclusive.

Question 82

- (a) \$74.40
- (b) 6.45%
- (c) 3 litres.
- (d) She saves \$4.80, but it costs her 6 lots of \$1.16, or \$6.64. So she loses money.

Question 83

- (a) \$2 400
- (b) \$4 928
- (c) \$24 928
- (d) \$519.33

Question 84

- (b) 17.8 metres
- (c) $\angle BAX \approx 24.3^\circ \approx 23^\circ$.
- (d) $\angle BYX \approx 48.6^\circ \approx 49^\circ$.