

School Certificate Mathematics 2010

Quick Answers

Section 1

1. 17
2. $8x$
3. $1\frac{2}{3}$ or $\frac{5}{3}$
4. 750 grams
5. 3
6. 0.02
7. 32 cm
8. (6,5)
9. 24 minutes
10. Any two numbers that add up to 9.
For example, 5 and 4.
11. 200
12. 13
13. 40 metres
14. 30 kilometres
15. 4×10^2 or 400
16. The scale on the "Sales" axis does not begin at zero. OR The widths of the columns make the later years look much bigger than they should be.
17. $a \times a$ means a groups of a , which is equal to a^2 . But $2a$ means 2 groups of a , or $a + a$.
18. 75%
19. -4
20. 20
21. 12 cm.
22. (-2,5)
23. 12
24. Any three of 2, 3, 5 or 67.
25. First use a protractor to draw the 35° angle at A . Then use a ruler to extend the line from A to be 8 cm long. Connect the end of this line to B .

Section 2 – Part A

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

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Section 2 – Part B

Question 81

- (a) (i) 9 metres
(ii) 45 m^2
(iii) 4 metres.
- (b) 1260 grams (or 1.26 kg)

Question 82

- (a) (i) 804 cm^2
(ii) 26.5625%
- (b) \$6

Question 83

- (a) A kite.
- (b) 62 cm.
- (c) (i) 84 cm^2 .
(ii) 13.44 cm

Question 84

- (a) 4
- (b) $t = g \times 0.3 + 1$
- (c) If $6 = g \times 0.3 + 1$, then $5 = g \times 0.3$.
Since 0.3 does not divide evenly into 5,
six rear wheel turns would require a gear
that is not a whole number.