

Year 10 Mathematics

Answers to 2004 School Certificate Examination

Section 1

1 2

2 $\frac{3}{10}$

3 Sector, Arc

4 60

5 There are two ways to get a head and a tail, but only one way to get either 2 heads or 2 tails. Therefore it is more likely to get a head and a tail than it is to get 2 heads or 2 tails.

6 15 stickets (1 to Timothy, 14 to Abigail)

7 762

8 7:33 pm

9 120

10 $83\frac{1}{2}$

11

Stem	Leaf
1	4 7
2	0 2 3 3 4
3	3

12 Old score 33, new score 41
Other answers are possible

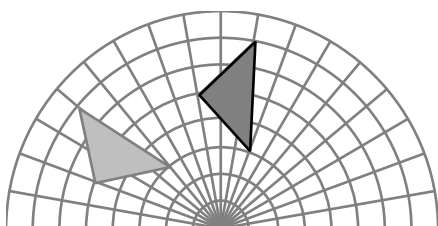
13 32 cm

14 34

15 Any number between 5 and 13

16 10, 16

17



18 16

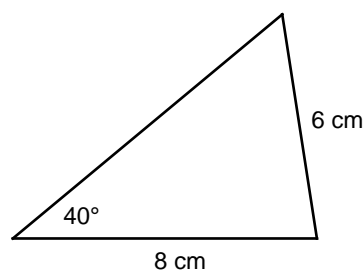
19 25%

20 55 cm^2

21 $5 \nless 6 \nless 7 \nless 8 + 1 = 41^2$

23 Acute angled

24



25 $3 + 4 - 2 = 5$

Section 2 - Part A

26 A

27 C

28 C

29 D

30 B

31 A

32 A

33 D

34 C

35 D

36 D

37 A

38 D

39 A

40 C

41 D

42 B

43 A

44 B

45 B

46 A

47 D

48 B

49 B

50 D

51 D

52 D

53 A

54 C

55 D

56 D

57 D

58 B

59 A

60 A

61 C

62 D

62 B

64 A

65 B

66 A

67 B

68 A

69 C

70 A

71 B

72 B

73 C

74 A

75 D

Year 10 Mathematics
Answers to 2004 School Certificate Examination

Section 2 - Part B

76 A, B and C

77 A and D

78 B and D

79 B, C and D

80 A, B and C

81 (a) $\frac{1}{6}$

(b) 50 times

(c) 0

(d) 2 ways

(e) (3,4), (3,5), (4,3), (4,4), (5,3)

82 (a) $x = 135^\circ$

(b) 4

(c) 750 cm^2

83 (b) 79%

(c) (0,5)

(d) $5p = 15.708 \text{ m}^2$

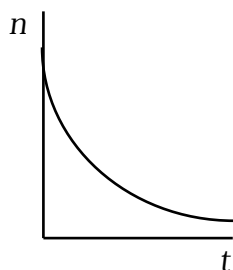
(e) 2513 grams

84 (a) 270

(b) 19440

(c) 21870

(d)



(e) 9 minutes