STADIRA TRAINING INSTITUTE

MARK SCHEME • Mathematics 0580/03 • Paper 3 (Core) • Mock Set 6

Maximum mark: 80

Question	Answer	Marks	Partial marks / guidance
1(a)	1186.50	B2	M1 for 84.75 × 14 oe
1(b)	23	B2	M1 for 2000 ÷ 84.75 (=23.6...) oe
1(c)	407.89	B3	M2 for 310 ÷ 0.76 oe or M1 for 76% associated with 310
2(a)	45	B1	
2(b)	30	B2	M1 for 45 ÷ 1.5 oe
2(c)	30	B2	M1 for 45 ÷ 1.5 oe, using the return leg
3(a)	025	B2	M1 for 205 - 180 oe
3(b)	090	B1	
4(a)	33.0	B3	M1 for 135/360 seen M1 for × 2 × π × 14 oe
4(b)	61.0	B2	M1 for their arc + 28 oe
5(a)	$x = 5$	B3	M1 for 4x - 11 = 9 oe M1 for 4x = 20 oe
5(b)	$x = 11$	B2	M1 for x + 3 = 14 oe
6(a)	2.376	B2	M1 for 2.4 × 1.1 × 0.9 oe
6(b)	1663.2	B3	M1 for their 2.376 × 1000 seen M1 for × 0.7 oe
7(a)	$15 < t \leq 30$	B1	
7(b)	30.25	B4	M1 for midpoints 7.5, 22.5, 37.5, 52.5 M2 for × their frequencies and adding (1815), M1 for ÷ 60
7(c)	$\frac{30}{60}$ oe	B2	M1 for 9 + 21 (=30) seen
8(a)	$x = 9$	B3	M1 for 2(x + 5) + 2x = 46 oe M1 for 4x = 36 oe
8(b)	126	B2	M1 for 14 × 9 oe
9(a)	1080	B3	M1 for 630 ÷ 7 (=90) seen M1 for their 90 × 12 oe
9(b)	450	B1	ft their total - 630
10(a)	528	B3	M1 for $\pi \times 5^2 \times 8$ (=628.3) seen M1 for $\pi \times 2^2 \times 8$ (=100.5) seen
10(b)	1426	B2	M1 for their 528 × 2.7 oe
11(a)	40	B1	
11(b)	20th term	B2	M1 for 4n = 80 oe
11(c)	all terms are multiples of 4 subtracted	B1	oe, e.g. 100 - 4n = 21 gives n = 19.75 which is not an

	from 100, so all are even		integer
12(a)	24	B2	M1 for 360 ÷ 15 oe
12(b)	2340	B2	M1 for (15 - 2) × 180 oe
13(a)	14.3	B2	M1 for 36.54 or 2.55 seen
13(b)	39.0625	B1	
14(a)	25 729	B3	M2 for 20000×1.065^4 oe or M1 for 1.065^4 seen
14(b)	5729	B1	ft their (a) - 20000
15(a)	5 and -3	B2	B1 for each correct value
15(b)	-2	B1	
15(c)	(2.5, 0) oe	B2	M1 for 5 - 2x = 0 oe
16(a)	2.5 oe	B1	
16(b)	25	B2	M1 for 10 × their 2.5 oe
17	the 1.2 kg packet P3.50 per 100 g against P3.70 per 100 g	B3	M1 for a correct rate for one packet M1 for a correct rate for the other
18(a)	18 30	B2	M1 for 14 40 + 3 h 50 min attempted
18(b)	18 55	B1	ft their (a) + 25 minutes

M = method mark · A = accuracy mark · B = independent mark · FT = follow through

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