STADIRA TRAINING INSTITUTE

MARK SCHEME • Mathematics 0580/03 • Paper 3 (Core) • Mock Set 5

Maximum mark: 80

Question	Answer	Marks	Partial marks / guidance
1(a)	357.60	B2	M1 for 2145.60 ÷ 6 oe
1(b)	750.96	B2	M1 for 2145.60 × 0.35 oe
1(c)	1915.71	B3	M2 for 2145.60 ÷ 1.12 oe or M1 for 112% associated with 2145.60
2(a)	111 to 115	B1	by measurement
2(b)	298	B2	M1 for 118 + 180 oe
2(c)	000 oe	B1	accept 360 or 0
3(a)	399.60	B2	M1 for 5400 × 0.074 oe
3(b)	7500	B3	M2 for 555 ÷ 0.074 oe or M1 for a correct division seen
4(a)	7.34	B3	M2 for 9.4 × tan 38 oe or M1 for tan 38 = x/9.4 oe
4(b)	11.9	B2	M1 for 9.4/cos 38 oe, or for Pythagoras with their (a)
5(a)	2.5 oe	B2	M1 for 15/6 oe
5(b)	20	B2	M1 for 8 × their 2.5 oe
5(c)	137.5	B2	M1 for 22 × (their 2.5)^2 oe
6(a)	300	B2	M1 for 150/360 × 720 oe
6(b)	33.3	B2	M1 for 120/360 × 100 oe
7(a)	$x = 7$	B3	M1 for 8x - 20 = 3x + 15 oe M1 for 5x = 35 oe
7(b)	$x = 16$	B2	M1 for 3x = 48 oe
8(a)	0.54	B3	M1 for 45 cm = 0.45 m seen M1 for 1.5 × 0.8 × their 0.45
8(b)	540	B1	ft their (a) × 1000
9(a)	4, 7, 12	B2	B1 for two correct
9(b)	147	B1	
9(c)	14th term	B2	M1 for $n^2 = 196$ oe
10(a)	3481.60	B3	M2 for 6800 × 0.8^3 oe or M1 for 0.8^3 seen
10(b)	36	B3	M1 for 9000 - 5760 (=3240) seen M1 for 3240/9000 × 100 oe
11(a)	$40 < m \leq 60$	B1	
11(b)	39	B4	M1 for midpoints 10, 30, 50, 70 seen M2 for × their frequencies and adding (1560), M1 for ÷ 40

12(a)	$\frac{12}{20}$ oe	B2	M1 for 5 + 7 (=12) seen
12(b)	200	B2	M1 for 500 × 8/20 oe
13(a)	10	B2	M1 for exterior angle 180 - 144 = 36
13(b)	36	B1	ft 360 ÷ their 10
14(a)	10.59	B2	M1 for 37.06 or 3.5 seen
14(b)	6.5×10^{-7}	B1	
15(a)	590.40	B3	M1 for 450 ÷ 12.5 (=36) seen M1 for their 36 × 16.40 oe
15(b)	85.7	B3	M1 for 5.25 hours seen M1 for 450 ÷ their 5.25
16(a)	5 : 8	B2	M1 for dividing both by 9 oe
16(b)	1 : 2.5 oe	B1	
17	4 hours 25 minutes	B2	M1 for 13 20 - 08 55 attempted
18(a)	7	B2	M1 for 4.2 kg = 4200 g seen
18(b)	1750	B1	ft 250 × their 7

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

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