STADIRA TRAINING INSTITUTE

MARK SCHEME • Mathematics 0580/01 • Paper 1 (Core) • Mock Set 6

Maximum mark: 80

Question	Answer	Marks	Partial marks / guidance
1(a)	27	B1	
1(b)	27	B1	oe, 3^3
1(c)	1	B1	
2(a)	4 correct lines of symmetry	B2	B1 for 2 or 3 correct with no extras
2(b)	4	B1	
3(a)	a correct net of the cuboid	B3	B2 for a net with one face wrong; B1 for six rectangles of correct sizes
3(b)	6	B1	
4(a)	6	B1	
4(b)	3.4	B3	M1 for 6/174 oe seen M1 for × 100 oe
5(a)	140	B2	M1 for 140/360 × 360 oe, or for 360 ÷ 360 = 1 person per degree
5(b)	$\frac{1}{9}$	B2	M1 for 40/360 oe seen
6(a)	$\frac{1}{2}$	B2	M1 for 8/10 - 3/10 oe seen
6(b)	$\frac{3}{8}$	B2	M1 for 63/168 oe seen
7(a)	$p = 106$	B1	angles on a straight line
7(b)	$q = 74$ corresponding angles	B2	B1 for 74 with no reason; corresponding (or alternate) angles
7(c)	$r = 106$	B1	ft 180 - their q
8(a)	8	B2	M1 for 4/50 × 100 oe
8(b)	56	B2	M1 for 50 × 1.12 oe
9(a)	$-2c + 3d$ oe	B2	B1 for one correct term
9(b)	$15e^3$	B2	B1 for 15e^k or ke^3
10(a)	negative	B1	accept "negative correlation"
10(b)	76 000 to 80 000	B1	ft a sensible reading; accept 76 to 80 if the P1000 scale is used
11(a)	12	B2	M1 for 84 ÷ 7 oe
11(b)	38	B2	M1 for 2(12 + 7) oe
12(a)	$x = 3$	B2	M1 for 9 = 3x oe
12(b)	$x = 7$	B2	M1 for x + 2 = 9 oe
13(a)	36	B1	

13(b)	$\frac{3}{36}$ oe	B2	M1 for listing (1,3), (2,2), (3,1)
14(a)	65	B1	
14(b)	21st term	B2	M1 for 3n = 63 oe
15(a)	10	B2	M1 for 1/2 × 5 × 4 oe
15(b)	120	B2	M1 for their 10 × 12 oe
16	correct angle bisector with arcs	B2	B1 for correct arcs with no line, or for a line with no arcs
17(a)	$12y - 8y^2$	B2	B1 for one correct term
17(b)	$3(2m + 5)$	B1	
18(a)	1	B1	
18(b)	2	B2	M1 for the ordered list seen
18(c)	$\frac{19}{9}$ = 2.11...	B2	M1 for 19 ÷ 9 oe
19(a)	(2, 3)	B2	M1 for one correct coordinate
19(b)	$-\frac{1}{2}$ oe	B2	M1 for 1 - 5/6 - -2 oe seen
20(a)	5760	B2	M1 for 4500 × 1.28 oe
20(b)	500	B2	M1 for 640 ÷ 1.28 oe
21	0.35, 38%, $\frac{2}{5}$	B2	M1 for converting to a common form, e.g. 0.4, 0.35, 0.38
22(a)	4.5×10^3	B1	
22(b)	0.0032	B1	
23	325	B2	M1 for 145 + 180 oe
24	900	B2	M1 for 4.5 × 20 000 (=90 000 cm) oe

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

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