STADIRA TRAINING INSTITUTE

MARK SCHEME · Mathematics 0580/01 · Paper 1 (Core) · Mock Set 2

Maximum mark: 80

Question	Answer	Marks	Partial marks / guidance
1(a)	1312	B1	
1(b)	80	B1	
1(c)	12	B1	
2(a)	correct bar: combi = 13 (height 13, same width)	B2	B1 for bar of correct width in the correct place with wrong height
2(b)	combi	B1	ft their completed bar chart
3(a)	$\frac{3}{5}$	B1	
3(b)	35	B1	
4(a)	any 3 squares shaded	B1	
4(b)	3 more regions shaded (8 in total)	B1	
5(a)	multiply by 4 oe	B1	
5(b)	18 and 11	B2	B1 for one correct or for -7 seen as the common difference
6(a)	$\frac{13}{20}$	B2	M1 for 8/20 + 5/20 oe seen
6(b)	$\frac{2}{3}$	B2	M1 for 24/36 oe seen
7(a)	$6y + 5$	B2	B1 for 4y - 1 + 6 + 2y oe seen
7(b)	$4y - 4$	B1	
8	$2^2 \times 3 \times 7$	B2	B1 for a correct factor tree or for $2 \times 2 \times 3 \times 7$
9(a)	52	B2	B1 for 27 or 25 seen
9(b)	8	B1	
9(c)	49	B1	
10	$p = 54$	B1	vertically opposite the third angle
	$q = 126$	B1	ft 180 - their p
	$r = 106$	B1	ft 180 - 74
11(a)	$2 + 5 \times (6 - 1) = 27$	B1	
11(b)	$36 \div (4 + 8) - 2 = 1$	B1	
12	3^5	B2	B1 for 3^2 or 3^3 seen, or for 243
13	0.4	B1	
14	1 | 3 6 7 8 2 | 2 5 7 8 3 | 0 4 9 4 | 1	B2	B1 for ordered leaves with one error or unordered but complete
15(a)	0.45 oe	B2	M1 for 1 - (0.35 + 0.2) oe
15(b)	70	B1	ft 200 × 0.35
16(a)	24	B2	M1 for 4 × 2 × 3 oe
16(b)	52	B3	M2 for 2(4×2) + 2(4×3) + 2(2×3) or M1 for two correct face areas seen
17	84π	B3	M1 for $\pi \times 10^2$ or $\pi \times 4^2$ seen M1 for their 100π - their 16π
18	$3x(2x^2 - 5)$	B2	B1 for 3(...) or $x(6x^2 - 15)$ seen

19(a)	2, 4, 6, 12 in the intersection 1, 3 in A only; 8, 10 in B only 5, 7, 9, 11 outside	**B2**	B1 for two of the three regions correct
19(b)	4	**B1**	ft their Venn diagram
20	$x = 3$	**M1**	for a correct method to eliminate
	$y = 3.5$ oe	**M1**	one variable (adding the equations)
		A1 A1	A1 for each of x and y
21(a)	triangle at (-1, 1), (-4, 1), (-1, 3)	**B2**	B1 for reflection in the x-axis
21(b)	triangle at (-1, -3), (2, -3), (-1, -1)	**B2**	B1 for a translation by -2|4 or 2|-4
21(c)	triangle at (2, 2), (8, 2), (2, 6)	**B2**	B1 for an enlargement sf 2, wrong centre
22(a)	$2x^2 + 7x - 15$	**B2**	B1 for three of $2x^2$, -3x, 10x, -15
22(b)	$x = 7$	**B2**	M1 for 4x - 8 = 20 or x - 2 = 5 oe
23(a)	75	**B2**	M1 for 150 ÷ 2 oe
23(b)	$t = \frac{d}{s}$	**B1**	
24(a)	320	**B2**	M1 for 960 ÷ 12 or 80 seen
24(b)	160	**B2**	M1 for 400 and 240 seen, or for 2 × their 80
25(a)	54	**B2**	M1 for 45 × 1.2 oe, or for 9 seen
25(b)	$\frac{1}{5}$	**B1**	
26(a)	2	**B2**	M1 for 13 - 5/4 - 0 oe seen
26(b)	$y = 2x + 5$	**B1**	ft their gradient
27	3.5×10^{-3}	**B1**	

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

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