EXAMINATIONS COUNCIL OF SWAZILAND
Swaziland General Certificate of Secondary Education

MATHEMATICS **6880/02**

Paper 2 Non-Calculator Short-Answer Questions
(Core and Extended)

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Confidential

MARK SCHEME

{6880/02}

MARKS: 90

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Qtn	ANSWER	MARKS
1(a)(i)	40.1	1
(ii)	40.100	1
(b)(i)	0.003473	1
(ii)	36	1
(c)(i)	324, 972, 2916	2
(ii)	Multiply by 3	1
		7
2 (a)	Mathematics	1
(b)	Accounts	1
(c)	1 hour 15 mins	1
(d)	5 hours 30 mins	2
		5
3 (a)	21 (lemon trees)	2
	$\frac{114}{100}\times 540$ oe	1
(b)	(E)615.6(0)	1
	$\frac{75000-57000}{75000}\times 100(\%)$ or 100 -76	1
(c)	24(%)	1 2
		1
		7
4 (a)(i)	10 + 3 + 3 + 6 + 2 + 2 + 9 + 11 46 (cm)	2
(ii)	10×3 + 6×7 + 9×2 oe	2
	90 (cm^2)	1
(b)	$\begin{pmatrix} 9 \\ -6 \end{pmatrix}+\begin{pmatrix} 4 \\ 2 \end{pmatrix}-\begin{pmatrix} 12 \\ -1 \end{pmatrix}$	2
	$\begin{pmatrix} 1 \\ -3 \end{pmatrix}$ brackets in answer imply brackets in method	1 **8**
		2

Q	ANSWERS	MARKS
(b)	Ca=55°	1
	b=80°	1
	c=45°	1
		8

6(a)	Hexagonal prism	1
(b)(i)	8	1
(ii)	18	1
(iii)	12	1
		4
7(a)	$2x - 4 + 2x^2 - 5x + 6x - 15$ $2x - 4 + 2x^2 + x - 15$ $2x^2 + 3x - 19$	3
(b)	$(x + q)(x - q)$	1
(c)	$y > \frac{x}{2} - 2$	2 3
		9
8(a)	$5\times2 + 10\times4 + 5\times9$ 95	1 1
(b)	32	1
	$5\times2 + 10\times4 + 10\times9 + 7\times13$ (P)231	1 1
		5
9(a)(i)	8 and 0	1
(ii)	−10 and 8	1
(b)	Line passing through (0, 4) and (4, 0) Line passing through (0, −4) and (2, 2)	1 1
	$x = 2$ and $y = 2$	2
		6
10(a)	$\pi(4.5^2 - 2.5^2)$oe.	2
	44.(0) (cm^2) art (35.f.)	1
(b)	their(a) × 20	1
	art 880 (cm^3) art (35.f.)	1
		5
Q	ANSWERS	MARKS
11(a)(i)	$3y = -3x + 9$ $y = -x + 3$	2 1
(ii)	−1	1

(b)	$3x + y < 12$	2
(c)	{0.5, 0, −1, −2} For correct outputs seen	2 **7**
12(a)	$x = 1\frac{1}{2}$	1
(b)	$x = 1$ $x = 2$	1 1
(c)(i)	Line passing through (−2, 7) and (4, 1)	2
(ii)	x = -1.6 x = 3.2 - 3.3	1 1 **7**
13(a)	6, 8, 14, 10, 2	3
(b) (i)	30	1
(ii)	6	1
(iii)	5	1
(iv)	$\frac{0+10+9+16+20+42+14+40+0+0}{30}$	2
(v)	5.03 $\frac{25}{30}$ oe	1 2
(vi)	0 not $\frac{0}{30}$	1 **12**