



EXAMINATIONS COUNCIL OF ESWATINI
Eswatini General Certificate of Secondary Education

MATHEMATICS

6880/02

Paper 2 Calculator Structured Questions (Core and Extended)

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Confidential

MARK SCHEME

{6880/02}

MARKS: 90

This document consists of **10** printed pages.

QUESTION	ANSWERS	MARKS
1 (a)	$\frac{1}{4}$	2
(b)	1.22	1
(c)	<	1
2 (a) (i)	1, 2, 3, 5, 6, 10, 15, 30	2
(ii)	7, 14, 21, 28	2
(b)	Square numbers	1
(c)	1 and 9	2
3 (a)	Parallel (lines)	1
(b)	Bearing	1
(c)	Equilateral triangle	1
(d)	Congruent	1
(e)	Reflex	1
4 (a) (i)	t	2
(ii)	$2mn^{-3}$	2
(b)	$a^2b^3 + a^3b^2$	2
(c)	$8x^2 - 12x - 2x + 3$	1
	$8x^2 - 14x + 3$	1
5 (a)	30 minutes	1
(b)	2 hours 15 minutes	2
(c)	1615 hrs	1
6 (a)	$\begin{pmatrix} 48 & 57 & 38 \\ 63 & 70 & 66 \end{pmatrix}$	2
(b)	$\begin{pmatrix} 99 & 114 & 79 \\ 131 & 119 & 118 \end{pmatrix}$	2

(c) (i)	0	1
(ii)	There is no fifth red ball in the bag ; o.e.	1
(d)	0.17	1
7 (a) (i)	160°	1
(ii)	18	2
(iii)	2880°	1
(b) (i)	Correct figure PQRS	3
(ii)	12.3 to 12.5 (cm)	1
8 (a)	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	1
(b)	$x = 3$ and $y = 2$	2
(c)	$-n = n - 4$	1
	$(n =) 2$	1
(d) (i)	$4y + 4$, oe.	1
(ii)	$4y + 4 = 24$	1
	$y = 5$	1
9 (a)	$\pi \times 6$ 18.8 (cm)	1 1
(b)	$\pi \times 3^2 - \pi \times 1.5^2$ 21.2 (cm ²)	2 1
10 (a)	$\frac{13}{100} \times 40000$ 5 200	1 1
(b)	(E) 66 000	2

(c)	$\frac{50000}{17.37}$ 2878.53	1 1
11 (a)	All points correct	3
(b)	Line between (20,10), (20,16) and (40,36), (40,42)	1
(c)	Positive	1
(d)	23 to 27 marks	1
(e)	39	1
12 (a) (i)	$p = -3$ and $q = 3$	2
(ii)	All points plotted	2
	Smooth curve through plotted points.	1
(b) (i)	$m = 3$	1
(ii)	Line passing through (0, 2) and (2, 0)	2
(iii)	$x = -1$ or $x = 3$	2
13 (a)	30	1
(b)	$50 \tan 25^\circ$	1
	23.3	1
(c)	$\frac{50}{\cos 30}$	2
	57.7	1
(d)	$\sqrt{75^2 + 23.3^2}$	1
	78.54	1