Using a Calculator Difficulty: Hard

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Number
Sub-Topic	Using a Calculator
Paper	Paper 2
Difficulty	Hard
Booklet	Question Paper 1

Time allowed: **26 minutes**

Score: **/20**

Percentage: **/100**

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

(a) Use a calculator to work out $\frac{5^{0.4}-\sqrt{3}}{0.13-0.015}$.

Write down all the digits in your calculator display. [1]

(b) Write your answer to **part (a)** correct to 2 significant figures. [1]

Question 2

The thickness of one sheet of paper is 8×10^{-3} cm.

Work out the thickness of 250 sheets of paper. [1]

Question 3

Calculate $\sqrt{120}+3.8^2-25$. [1]

Question 4

Calculate $\sqrt{\frac{1}{2}(1-\cos 48°)}$. [1]

Question 5

Calculate.

(a) $2^3 - \sqrt{10+4^2}$ [1]

(b) $\frac{2\sqrt{3} \times \tan 70°}{3}$ [1]

Question 6

Find the cube root of 4913. [1]

Question 7

Use your calculator to work out $\sqrt{\frac{3}{4}} + 2^{-1}$.

Give your answer correct to 2 decimal places. [2]

Question 8

(a) Use your calculator to find the value of $7.5^{-0.4} \div \sqrt{57}$.
Write down your full calculator display. [1]

(b) Write your answer to **part (a)** in standard form. [1]

Question 9

(a) Calculate $\sqrt{5.7} - 1.03^2$.

Write down all the numbers displayed on your calculator. [1]

(b) Write your answer to **part (a)** correct to 3 decimal places. [1]

Question 10

Use a calculator to find

(a) $\sqrt{5\frac{5}{24}}$, [1]

(b) $\frac{\cos 40°}{7}$. [1]

Question 11

$$m = \frac{1}{4}[3h^2 + 8ah + 3a^2]$$

Calculate the exact value of m when $h = 20$ and $a = -5$. [2]

Question 12

Calculate $3\sin 120° - 4(\sin 120°)^3$. [2]