Standard Form
Difficulty: Easy
Question Paper 2

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Number
Sub-Topic	Standard Form
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 2

Time allowed: **32 minutes**

Score: **/25**

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 hummingbird beats its wings 24 times per second.

(a) Calculate the number of times the hummingbird beats its wings in one hour. [1]

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

Question 2

(a) Write 16 460 000 in standard form. [1]

(b) Calculate $7.85 \div (2.366 \times 10^{2})$, giving your answer in standard form. [2]

Question 3

Work out $\dfrac{240^2}{5\times10^6}$.

Give your answer in standard form. [2]

Question 4

Calculate the value of $5(6\times 10^3 + 400)$, giving your answer in standard form. [2]

Question 5

Change 64 square metres into square millimetres.
Give your answer in standard form. [2]

Question 6

$\sqrt{23}$ 48% 4.80 $\frac{53}{11}$ [2]

Write the numbers in order of size with the **largest** first.

Question 7

1 second = 10^6 microseconds.

Change 3×10^{13} microseconds into minutes. Give your answer in standard form. [2]

Question 8

A light on a computer comes on for 26 700 microseconds.

One microsecond is 10^{-6} seconds.

Work out the length of time, in seconds, that the light is on

(a) in standard form, [1]

(b) as a decimal. [1]

Question 9

Use the formula

$$P = \frac{V^2}{R}$$

to calculate the value of P when $V = 6 \times 10^6$ and $R = 7.2 \times 10^8$. [2]

Question 10

The planet Neptune is 4496000 000 kilometres from the Sun.
Write this distance in standard form. [1]

Question 11

The mass of the Earth is $\frac{1}{95}$ of the mass of the planet Saturn. [3]

The mass of the Earth is 5.97×10^{24} kilograms.
Calculate the mass of the planet Saturn, giving your answer in standard form, correct to 2 significant figures.

Question 12

A block of cheese, of mass 8 kilograms, is cut by a machine into 500 equal slices.

(a) Calculate the mass of one slice of cheese in kilograms.

[1]

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

[1]