GCSE MATHEMATICS
AQA | Edexcel | OCR I WJEC

## Standard Form

Please write clearly in block capitals

Forename:

Surname:

## Materials

For this paper you must have:

- mathematical instruments

You can use a calculator.

## Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.


## Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.


## Advice

- In all calculations, show clearly how you work out your answer.


2(a) Write $9.9 \times 10^{-4}$ as an ordinary number.
$\qquad$
$\qquad$
Answer

2(b) Write the number 0.068 in standard form.
$\qquad$
$\qquad$
Answer $\qquad$

2(c) Work out the value of $\left(6 \times 10^{3}\right) \times\left(9 \times 10^{4}\right)$.
Give your answer in standard form.
$\qquad$
$\qquad$
Answer $\qquad$

Turn over for next question

3(a) Write $5 \times 10^{1}$ as an ordinary number.

## Answer

3(b) Write the number $2.7027 \times 10^{-2}$ as an ordinary number.
$\qquad$
$\qquad$
Answer $\qquad$

3(c) Work out the value of $\left(4 \times 10^{6}\right) \div\left(2 \times 10^{4}\right)$.
Give your answer as an ordinary number.
$\qquad$
$\qquad$
Answer


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5 Jake noted that speed of light is approximately $1.1 \times 10^{9} \mathrm{~km} / \mathrm{h}$;
the speed of sound is approximately $1.2 \times 10^{3} \mathrm{~km} / \mathrm{h}$ and
$11 \div 12=0.916$.
Using Jake's figures, calculate how many times faster light is than sound.
Write your answer in standard form to 3 significant figures.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer

## Turn over for next question

$$
\begin{aligned}
k & =\frac{a b}{b-c} \\
a & =2 \times 10^{4} \\
b & =6 \times 10^{6} \\
c & =1 \times 10^{5}
\end{aligned}
$$

Find the value of $k$.
Give your answer in standard form correct to 2 significant figures.
Hint: $12 \div 59 \approx 0.20$
$\qquad$
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$\qquad$
$\qquad$
Answer

End of Questions

