MME

GCSE MATHEMATICS

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.

1(a)	Write 1.24 × 10 ⁶ as an ordinary number.	[1 mark]
	Answer	
1(b)	Write the number 742,000 in standard form.	[1 mark]
	Answer	
1(c)	Write 6.3×10^{-7} as an ordinary number.	[1 mark]
	Answer	
	 Construction of the second s	rds

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2(a)	Write 9.9×10^{-4} as an ordinary number.	[1 mark]
	Answer	
2(b)	Write the number 0.068 in standard form.	[1 mark]
	Answer	
2(c)	Work out the value of $(6 \times 10^3) \times (9 \times 10^4)$. Give your answer in standard form.	[2 marks]
	Answer	
	Turn over for next question	

Turn over ►

3(a)	Write 5×10^1 as an ordinary number.		[1 mark]
	Answer		
3(b)	Write the number 2.7027×10^{-2} as ar	ו ordinary number.	[1 mark]
	Answer		
3(c)	Work out the value of $(4 \times 10^6) \div (2 \times$ Give your answer as an ordinary num	< 10 ⁴). ber.	[2 marks]
	Answer		
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4(a)	Write 4.7×10^5 as an ordinary number	r in words.	[1 mark]
	Answer		-
4(b)	Write the following numbers as ordina Forty six $7.2 imes 10^2$ 6,3	Try numbers in ascending order. 4.66×10^5 0.87 3.3×10^{-4}	
			[3 marks]
			-
			-
	Answer		-
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5	Jake noted that speed of light is approximately 1.1×10^9 km/h;	
	the speed of sound is approximately $1.2 imes 10^3 ext{ km/h}$ and	
	$11 \div 12 = 0.91\dot{6}.$	
	Using Jake's figures, calculate how many times faster light is than sound.	
	Write your answer in standard form to 3 significant figures.	
	,	[3 marks]
	Answer	
	Turn over for next question	

$$k = \frac{ab}{b-c}$$
$$a = 2 \times 10^{4}$$
$$b = 6 \times 10^{6}$$
$$c = 1 \times 10^{5}$$

End of Questions

Find the value of k.

Give your answer in standard form correct to 2 significant figures.

Hint: $12 \div 59 \approx 0.20$

Answer

[5 marks]

END
