

Standard Form

Question Paper 1

Level	IGCSE
Subject	Maths (0582)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Standard Form
Booklet	Question Paper 1

Time Allowed: 60 minutes

Score: 50 /50

Percentage: /100

Grade Boundaries:

A*	А	В	С	D	Е	U
>85%	75%	60%	45%	35%	25%	<25%

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I	Write 1.27×10^{-3} as an ordinary number.	
		[1]
2	Write 0.000 0574 in standard form.	[1]
3	Write 270 000 in standard form.	<i>Answer</i> [1]
4	Write 53 400 000 in standard form.	Answer[1]

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5	Write 1.7×10^{-4} as an ordinary number.	Answer[1]
6	(a) Write 2.8×10^2 as an ordinary number.	
	(b) Work out $2.5 \times 10^8 \times 2 \times 10^{-2}$. Give your answer in standard form.	Answer(a)[1]
	 (b) Work out 2.5 × 10⁸ × 2 × 10⁻². Give your answer in standard form. 7 Work out 4 × 10⁻⁵ × 6 × 10¹². Give your answer in standard form. 	x sixe.
	The opart	Answer(b) [2]
	7 Work out $4 \times 10^{-5} \times 6 \times 10^{12}$. Give your answer in standard form.	
		Answer[2

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8
$$p = 4 \times 10^5$$
 $q = 5 \times 10^4$

Find, giving your answer in standard form,

(a) pq,

Answer(a) [2]

(b) $\frac{q}{p}$.

Answer(b) [2]

6

- **9** Write the answer to the following calculations in standard form.
 - (a) $600 \div 8000$

Answer(a) [2]

(b) $10^8 - 7 \times 10^6$

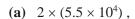
Answer(b) [2]

10 Calculate $(4.3 \times 10^8) + (2.5 \times 10^7)$.

Give your answer in standard form.

Answer	[2]
11113WC1	 14

11 Calculate, giving your answers in standard form,



$$Answer(a)$$
[2]

(b)
$$(5.5 \times 10^4) - (5 \times 10^4)$$
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12	2 The price of a ticket for a football match is \$124.							
	(a) Calculate the amount received when 76 500 tickets are sold.							
	(b) Write your answer to part (a) in standard			[1]				
		Answer(b) \$		[1]				
13	Work out $2(3 \times 10^8 - 4 \times 10^6)$, giving your ar	nswer in standard form.						

[2]

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-	` \	Calculate the nu	1 (41 1	. 1 . 1	1 4 1		1
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[1] Answer(a)

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

[1]

15 Solve the equation $4x + 6 \times 10^3 = 8 \times 10^4$.

Give your answer in standard form.

Answer x =[3]

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	16	(a)	Write 16 460 000 in standard form.
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(b) Calculate
$$7.85 \div (2.366 \times 10^2)$$
, giving your answer in standard form.

17 Work out
$$\frac{240^2}{5 \times 10^6}$$

Give your answer in standard form.

			2			
18	Calculate the value	$1e$ of 5(6 \times	$10^{3} + 400$).	giving your	answer in	standard form.

Answer [2]

19 Change 64 square metres into square millimetres. Give your answer in standard form.

Answer mm² [2]

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

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

Answer > ____ > ___ [2]

21	1 second =	10 ⁶ microseconds.
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Change 3×10^{13} microseconds into minutes. Give your answer in standard form.

Answer min [2]

22 (a) There are 10⁹ nanoseconds in 1 second. Find the number of nanoseconds in 5 minutes, giving your answer in standard form.

Answer(a) [2]

(b) Solve the equation $5(x + 3 \times 10^6) = 4 \times 10^7.$

Answer(b) x = [2]