Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Standard Form

Calculator Not Allowed

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You should have a ruler, compass and protractor where required.

Total Marks :			
Total Marks :			

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1)	Express 13 million in standard form.	[1]
2)	Evaluate each of the following giving all of your answers in standard form . (a) $4.5 \times 10^8 + 9.4 \times 10^7$	[1]
	Answer in standard form: (b) $\frac{6 \times 10^{12}}{3 \times 10^{-6}}$	[1]
	Answer in standard form: (c) The product of 1000 and six million.	[2]
	Answer in standard form:	
3)	Find the value of (9.2×10^5) – (3×10^4) . Give your answer in standard form.	[2]

4)	Evalu	uate the following, giving your answer in standard form.	
	(a)	$\frac{6.3 \times 10^{12}}{12.6 \times 10^8}$	

	****		[2]
	(b)	$(8 \times 10^2) \times (3 \times 10^6)$	

	******		[2]
	(0)	$(3.24 \times 10^8) + (1.2 \times 10^7)$	[2]
	(0)	$(5.24 \times 10^{\circ}) + (1.2 \times 10^{\circ})$	
	**********		,
	**********	***************************************	
	********	***************************************	
	*******		[2]
5)	Writ	te 4800000 in standard form.	
		Answer	[1]

6)	Write 0.0000624 in standard form.		
	Answer	[1]	
7)	Evaluate $2.34 \times 10^{13} + 1.6 \times 10^{12}$. Give your answer in standard form.	[2]	
0)		1934934944	
8)	(a) Express 0.000053 in standard form.	[1]	
	(b) Evaluate $(4.5 \times 10^7) \times (4 \times 10^5)$ giving your answer in standard form.		
		[2]	

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9) E	xpress each of the following numbers in standard form.	
	a) 0·000056	[1]
(£	b) 23000000	[1
10) (a)	Write the number 0·00000038 in standard form.	[1]
(b)	Evaluate (1·4 $ imes$ 10 ⁸) $ imes$ 9000, giving your answer in standard form.	[2]
11)		
Write	e the following numbers in standard form. 0.000 000 053	[1]
(b)	6 190 000 000	[1]

Evaluate each of the following giving all of your answers in standard form.	
(a) $6.4 \times 10^{10} + 7.3 \times 10^9$	[1]
*	
Answer in standard form =	
(b) $\frac{8 \cdot 2 \times 10^{13}}{4 \cdot 1 \times 10^{-7}}$	[1]
Answer in standard form =	
(c) The product of 1.3 million and 6 million.	[2]
	•••••
	••••••
Answer in standard form =	
13) Evaluate the following, giving each of your answers in standard form.	
(a) $(2.5 \times 10^6) \times (8 \times 10^3)$	[2]
(a) (20 × 10) × (0 × 10)	[4]

(b) 5	5 × 10 ⁸ + 6·8 × 10 ⁹	[2]
4) Find	, in standard form, the value of each of the following.	
(a)	$\frac{7.5 \times 10^6}{5000}$	[2]
(b)	$(2.3 \times 10^3) + (6.4 \times 10^4)$	[2]
-	mass of the planet Jupiter is 1.9×10^{27} kg. mass of the planet Venus is 4.87×10^{24} kg.	
	roximately how many times bigger is the mass of Jupiter than the mass of Venus?	[3]

