N115 Standard form

Q1.	
(a) Write 0.000 423 in standard form.	
	(1)
(b) Write 4.5×10^4 as an ordinary number.	
	(1
	(Total for question is 2 marks)
Q2.	
(a) Write 32 460 000 in standard form.	
	(1)
(b) Write 4.96×10^{-3} as an ordinary number.	
	(1)
Asma was asked to compare the following two	
	and $B = 4.73 \times 10^9$
She says,	4.73 so <i>A</i> is bigger than <i>B</i> ."
(c) Is Asma correct?	4.73 SO A IS Digger trial D.
You must give a reason for your answer.	
	(1)

(Total for question = 3 marks)

Q3.		
Work out the value of $(9 \times 10^{-4}) \times (3 \times 10^{7})$ Give your answer in standard form.		
	(Total for question = 2 marks	
Q4.		
(a) Write 2.673×10^4 as an ordinary number.		
	(1	
(b) Write 0.0704 in standard form.		
	(1	
(c) Calculate $(4.5 \times 10^6) \div (3 \times 10^{-2})$ Give your answer in standard form.		

(Total for question = 4 marks)

(2)

Q5.	
Work out $(13 \times 10^7) \times (5 \times 10^{-12})$ Give your answer as an ordinary number.	
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	(Tatal for more than 0 more la)
	(Total for question = 2 marks)
Q6.	
0.06×0.0003 Work out 0.01	
Work out 0.01 Give your answer in standard form.	
Olve your answer in standard form.	
	(Total for question = 3 marks)

Q7.
Work out $(3.5 \times 10^{-7}) \div (7 \times 10^{-6})$ Give your answer in standard form.
(Total for question = 2 marks
Q8.
(a) Write 340 000 000 in standard form.
(b) Work out $(1.6 \times 10^{-7}) \div (8 \times 10^{-3})$
Give your answer as an ordinary number correct to 3 significant figures.

(Total for question = 3 marks)

(2)

(a) Write 4.7 x 10 ⁻¹ as an ordinary number.	
(b) Work out the value of $(2.4 \times 10^3) \times (3 \times 10^5)$ Give your answer in standard form.	(1)
	(2)
(Total for question = 3 ma	arks)
Q10.	
One uranium atom has a mass of 3.95×10^{-22} grams. (a) Work out an estimate for the number of uranium atoms in 1kg of uranium.	
	(3)
(b) Is your answer to (a) an underestimate or an overestimate? Give a reason for your answer.	
	(1)

(Total for question = 4 marks)

Q9.

Q11.

Write the following numbers in order of size. Start with the smallest number.	
0.045×10^3	4.5×10^{-3}

(Total for question = 2 marks)

 0.45×10^{-1}

450

Q12.

(a) Write 7.97×10^{-6} as an ordinary number.

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(1)

(2)

(b) Work out the value of $(2.4 \times 10^5) \div (4 \times 10^{-3})$ Give your answer in standard form.

.....

(Total for question = 3 marks)

Q13.	
(a) Write 0.00549 in standard form.	
(b) Find the value of $(8 \times 10^3)^2$	(1)
Give your answer in standard form.	
(c) Find the value of $(7 \times 10^5) + (8 \times 10^4)$ Give your answer in standard form.	(2)
	(2)
	(Total for question = 5 marks)