Q1.

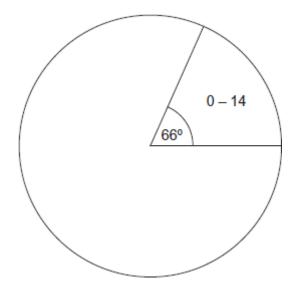
(a)	Work	out 2.4 × 0	.002		
				Answer	(1)
(b)	Write	1.2 × 10⁻⁵	as an ordina	ary number.	
				Answer	(1)
(c)	Write	2 500 000	in standard	form.	
				Answer(Total 3 m	(1) narks)

Q2.

In 2011 there were 3.22×10^7 females in the UK. This was 51% of the whole population.

The pie chart shows an estimate of the males aged 0 - 14 years old in 2011.

Male population in 2011



	Source: http://www.ons.gov.uk	
Use this information to Write your answer in	o work out the number of males aged 0 - 14 years old in 2011. standard form.	
	Answer(Total 6 ma	rks)
Q3. (a) Write 0.000 72	in standard form.	
	Answer	(1)
		,
(b) Divide 80 millio Write your answ	n by 20 000 ver in standard form.	
•••••		

	Answer	(3) (Total 4 marks)
	were 17 million families in the UK in 2006.	
(a)	The mean number of children per family was 1.8 How many children were there in the UK? Give your answer in standard form.	
		· ·
	Answer	(2)
(b)	The total income of families in the UK was £ 5.6 x 10 ¹¹ What was the mean income per family? Give your answer to an appropriate degree of accuracy.	
		· ·
	Answer £	(3) (Total 5 marks)

Q5.(a) Work out $(6.45 \times 10^{6}) \times (2.5 \times 10^{-4})$

Write your answer in standard form.

(b)

Answer	(2)
Here is a number machine.	
Input Output	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Work out the input when the output is 5.05×10^3	
Write your answer in standard form.	
Answer(Total 5 mar	(3) rks)

Q6.Here is a list of numbers.

1 000 000 4.6×10^4 63 000 5×10^3 1.7×10^5

Vork out the range. Vrite your answer in standard form.
Answer

(Total 4 marks)

·		the number 4540 million in standard form.	
		Answer	(Total 2 marks)
Q8. (a)	Write	2.46 × 10 ^{-₃} as an ordinary number.	
		Answer	 (1)
	(b)	Work out the value of (1.8 × 10⁵) ÷ (9 × 10²) Give your answer in standard form.	
		Answer	 (2) (Total 3 marks)
Q9	.(a)	Work out (3 × 10⁵) × (6 × 10°) Give your answer in standard form.	

	Answer	
		(2)
(b)	Work out $(3 \times 10^5) \div (6 \times 10^9)$	
	Give your answer in standard form.	
	Sive your answer in changara form.	
	Answer	(2)
		(Total 4 marks)
Q10.Here	are two events.	
A	A ticket wins the National Lottery.	
B row	A fair coin lands on heads five times in a	
100	•	
The	nuch chility of A hopponing in 7.45 to 40-8	
ine	probability of A happening is 7.15 × 10 ^{-∞} .	
	many more times likely is B than A ?	
Give	your answer in standard form to 2 significant figures.	
	Anguar	
	Answer	(Total 3 marks)

Q11. (a)	Write	the number 5.28 x 10 ⁻³ as an ordinary decimal number.	
		Answer	(1)
	(b)	Work out $(7 \times 10^3)^2$ Give your answer in standard form.	
		Answer	(2) (Total 3 marks)
Q1		estimated that there are 7 500 000 000 000 000 grains of sand on the worl	d's
		(Source University of Hawaii)	
	(a)	Write this number in standard form.	
		Answer	(1)
	(b)	This number is 10% higher than the previous estimate.	
		Calculate the previous estimate. Give your answer in standard form to two significant figures.	

AQA GCSE Maths - Standard Form

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