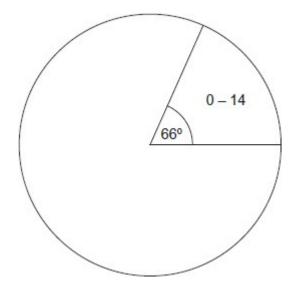
Q1.	(a)	Work out 2.4 × 0.002	
		Answer	(1)
	(b)	Write 1.2 × 10−5 as an ordinary number.  Answer	
	(c)	Write 2 500 000 in standard form.	(1)
		Answer(1	(1) Fotal 3 marks)

Q2.

In 2011 there were  $3.22 \times 107$  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

Source: http://www.ons.gov.uk	
Use this information to work out the number of males aged 0 – 14 years ol 2011. Write your answer in standard form.	d in
	•
Answer	(Total 6 marks)
Q3.(a) Write 0.000 72 in standard form.	
Answer	(1)
	(1)
(b) Divide 80 million by 20 000 Write your answer in standard form.	

AQA GCSE Maths -	Standard Form	
	Answer	(3) (Total 4 marks)
<b>Q4.</b> There	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 $£ 5.6 \times 1011$	
	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  $(6.45 \times 106) \times (2.5 \times 10-4)$  Write your answer in standard form.

Answer	(2)
(b) Here is a number machine.  Input  Output  \$\frac{1000}{\dots 20} \dots 20 \dots 5.05 \times 103\$  Work out the <b>input</b> when the output is 5.05 \times 103  Write your answer in standard form.  Answer	
	(3) (Total 5 marks)
<b>Q6.</b> Here is a list of numbers.  1 000 000   4.6 × 104   63 000   5 × 103   1.7 × 105	
Work out the range. Write your answer in standard form.	
Answer	(Total 4 marks)

Y				n in standard fo				
	•••••		Answ	/er			 (Total 2	marks)
<b>Q8.</b> (a)	Write	2.46 × 1	LO–3 as an or	dinary number				
			Allswi	e:				(1)
	(b)	Work out	the value of	(1.8 × 105)	÷ (9 × 102)			
		Give	your	answer	in	standard	form.	
			Answ	er				(2
							(Total 3	marks)
Q	<b>9.</b> (a)	Work out	(3 × 105)	× (6 × 109)				
		Give your	answer in st	andard form.				
			•••••	•••••				

<b>Q11.</b> (a) Write the	e number 5.28 × 10−3 as an ordinary decimal number.	
	Answer	(1)
(b)	(Work തർ)2 Give your answer in standard form.	
	Answer	(2 <u>)</u> (Total 3 marks)
<b>Q12.</b> It is es beacl	stimated that there are 7 500 000 000 000 000 grains of sand on the w nes.	orld'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.	

Answer	
Allawei	
	(3)
	(Total 4 marks)
	(10101111111111111111111111111111111111