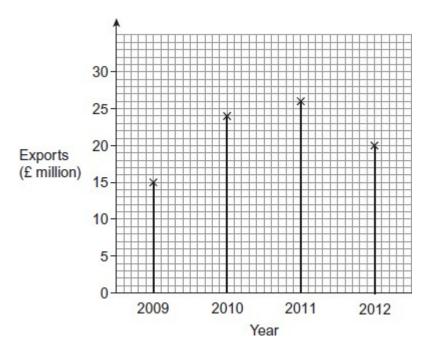
Q1.	Mr. longs works for five days each week	
	Mr Jones works for five days each week.	
	If he uses his car to travel to work,	
	each day he drives a total distance of 24.2 miles his car travels 32.3 miles per gallon of petrol petrol costs £1.27 per litre.	
	If he uses the bus to travel to work, he can buy a weekly ticket for £19.50	
	Use 1 gallon = 4.5 litres	
	Is it cheaper if he uses his car or the bus to travel to work?	
	You must show your working.	
	Answer	(Total 5 marks)
Q2.	A pop concert has a crowd of 2000 people rounded to 1 significant figure.	
	A rock concert has a crowd of 2000 people rounded to 2 significant figures.	
	7	
	Work out the largest possible difference between the exact numbers of the tw	vo crowds.
	~ ·	

AQA GCSE Ma	ths - Rounding		
	Answer		(Total 3 marks)
Q3.	Use approximations to estimate the value of	3.92 ² 0.48	
	Use approximations to estimate the value of	0.48	

Answer(Total 2 marks)

Q4.The diagram shows information about the exports of a company.

Exports



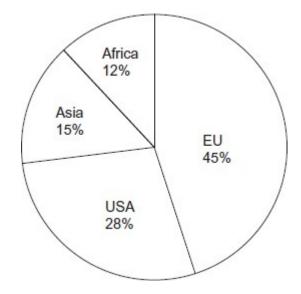
(a)	Work out the increase in the expe	orts from 2009 to 2010.
	Answer f	million

(b)	Write the value of the exports in 2011 to 1 significant figure.	
	Answer £million	(1)

(2)

(c) The pie chart shows information about the exports of the company in 2012.

Exports in 2012

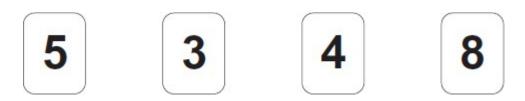


	Use both diagrams to work out the value of the exports to the USA in 2	2012.
	Answer £million	(3) (Total 6 marks)
Q5.	A number, <i>x</i> , is 30 when rounded to the nearest 10 Work out the value of the square root of the least possible value	of <i>x</i> .
	Answer	(Total 2 marks)
Q6.	Use your calculator to work out $\frac{3.21 + 4.89}{5.62 - 1.89}$ as a decimal. (a) Write down your full calculator display.	

(b)	Write your a	answer to 1 decir	nal place.			
		Answer				otal 2 ma
Nick	went to a foc	otball training car	np.			
(a)	He weighed	80 kg before the 74 kg after the ti s percentage wei	raining camp.			
		Answer			%	
(h)	Nick's backp	pack weighs 12 k	g to the nearest	kilogram.		
(b)	What is the l	east the backpa	ck could weigh?			
(0)	6 1 1 1					
(D)		rrect answer. 11.5 kg	11.6 kg	11.9 kg	12 kg	

(1)

Q8.Here are four cards.



Not drawn accurately

20 cm

9 cm

C

Page 7

rk out the length AC. Give your answer to 1 decimal place.	
Answercm	(Total 4 marks)
Use your calculator to work out 6.7 + 21.5 – 3.09 Answer	(1)
Use your calculator to work out 265 × 89 Answer	(1)
Use your calculator to work out √227 Write down your full calculator display. Answer	(1)
Give your answer to part (c) to 1 decimal place. Answer	(1) (Total 4 marks)
•	Answer

Q11.These cars are for sale.







	© Robert C	Churchill/iStock	
(a)	Which car is the cheapest?		
	Answer	•	(1)
			(-)
(b)	The price of each car is rounded to the nearest £100.		
(6)			
	Which price changes by the greatest amount? You must show your working.		
		•••••	
	Answer		
	/ (15VVC1	·· (Total 4 m	(3) narks)
		(Total 4 III	iai K3)
Q12. Ther	e 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 £ 5.6×1011

	What appro	was th priate d	ne mear egree of	incomo accurac	e per fa y.	mily? Give	your ans	wer to	an
	•••••	•••••	•••••	•••••	•••••	•••••	••••••	•••••	
					•••••	•••••			
	•••••	•••••	•••••	•••••	••••••	•••••	••••••	•••••	
			Answe	er £					(3) (Total 5 marks)
Q13. (a)	Write	3.574							(1)
(b)	Put th	nese dec 0.62	imals in 0.325		arting wit	h the smal	lest.		
			Ar	nswer	,		. ,		(1)
(c)	Circle	the two	values	that are	equivalen	t to 0.8			
	8%	4 5	80%	8	<u>1</u> 8				
									(2) (Total 4 marks)
Q14. Chr	is record	ed the r	number (of runs h	e scored i	n five crick	et matches		
	21	20)	29	22	24			

Calcula Give yo			neare	est whole num	ber.			
•••••	•••••	•••••	•••••		•••••	•••••		
•••••	•••••	•••••	••••••		••••••	••••••	•••••	
		Answer	••••••					
Calcula	ate the	range.						
	•••••							
		Answer	•••••			•••••		
Tommy	y also r	ecorded tl	ne nur	nber of runs h	e score	d in the	five matches.	
Tomm	y's mea	ın was 30.						
He says	s, "	l scored n	nore ru	uns than Chris.	,,,			
Use	the	data	to	comment	on	this	statement.	
	•••••	•••••						
	•••••							
	•••••			•••••			•••••	
Tomm	y's rang	ge was 75.						
Chris s	ays,	"I was m	nore co	onsistent than	Tommy	/."		
Use	the	data	to	comment	on	this	statement.	
	•••••	•••••					••••••	
	•••••	•••••			•••••	•••••		
•••••	•••••				•••••	•••••		

(Total 7 marks)