Q1.	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 <b>must</b> show your working.							
	Answer							
		(Total 5 marks)						
Q2.	A man associate has a survival of 2000 manufacture and all to 4 significant figure							
	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.							
	Work out the largest possible difference between the exact numbers of the two cre	owds.						

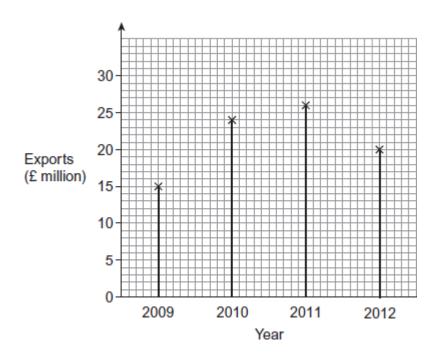
	Answer(Total 3 marks
Q3.	3.92 <sup>2</sup>
	Use approximations to estimate the value of $\frac{3.92^2}{0.48}$
	Answer(Total 2 marks

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

**Exports** 

(2)

(1)



(a) Work out the **increase** in the exports from 2009 to 2010.

.....

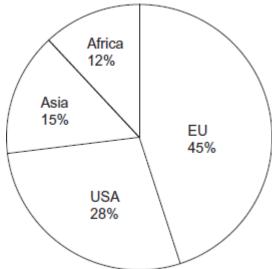
Answer £.....million

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

Answer £.....million

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

## **Exports in 2012**



	Use <b>both</b> diagrams to work out the value of the exports to the <b>USA</b> in 2012.	
	Answer £million	(3) Total 6 marks)
Q5.	A number as in 20 when rounded to the progress 10	
	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 $x$ .	
	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.	
	Answer	

(1)

	(b)	Write your a	answer to 1 decima	al place.					
			Answer				(1)		
						7)	Total 2 marks)		
Q7.	Nick	went to a foo	tball training camp						
	(a)	He weighed	l 80 kg before the t 74 kg after the tra	training camp.					
		Work out his	s percentage weigh	nt loss.					
			Answer			%	(3)		
	(b)	<ul><li>(b) Nick's backpack weighs 12 kg to the nearest kilogram.</li><li>What is the least the backpack could weigh?</li></ul>							
		Circle the co	orrect answer.						
		11.4 kg	11.5 kg	11.6 kg	11.9 kg	12 kg	(1)		
						(1	「otal 4 marks)		

**Q8.**Here are four cards.



3

4

8

(a) Write down the value of the digit 5 in the number 5348

Answer .....

(1)

(1)

(b) Write the number 5348 to the nearest hundred.

Answer .......(1)

(c) What is the largest number you can make using all four cards?

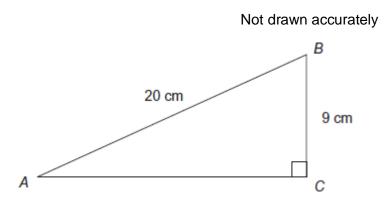
Answer .....

(d) What is the smallest **odd** number you can make using all four cards?

Answer .....

(Total 4 marks)

Q9.



Page 7

	rk out the length <i>AC</i> . e your answer to 1 decimal place.	
	Answer cm	 (Total 4 marks)
<b>Q10.</b> (a)	Use your calculator to work out 6.7 + 21.5 - 3.09  Answer	(1)
(b)	Use your calculator to work out 265 × 89  Answer	(1)
(c)	Use your calculator to work out $\sqrt{227}$ Write down your full calculator display.  Answer	(1)
(d)	Give your answer to part (c) to 1 decimal place.  Answer	(1) (Total 4 marks)

**Q11.**These cars are for sale.







	© Robert Churchill/iStock	(
(a)	Which car is the cheapest?	
	Answer	(1)
		(1)
(p)	The price of each car is rounded to the nearest £100.	
	Which price changes by the <b>greatest</b> amount? You <b>must</b> show your working.	
	Answer	(2)
	т)	(3) otal 4 marks)
Q12.There	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  $£ 5.6 \times 10^{11}$ 

				ome per appropri		/? egree of accuracy.			
			Answe	r£			(Total 5 ma	(3) arks)	
<b>Q13.</b> (a)	Write	3.574		imal plac					
			Answe	r				(1)	
(b)	Put the	ese deci	mals in c	order, sta	rting with t	he smallest.			
	0.5	0.62	0.325						
			Ar	iswer	,	,		(1)	
(c)	Circle	the <b>two</b>	values th	nat are ed	quivalent to	0.8			
	8%	4 5	80%	8	<u>1</u> 8				
							(Total 4 ma	(2) arks	
<b>Q14.</b> Chri	s recorde	d the nu	mber of	runs he s	cored in fi	ve cricket matche	es.		
	21	20		29	22	24			

Calculate the mean. Give your answer to the nearest whole number.	
Answer	(
Calculate the range.	
Answer	
Tommy also recorded the number of runs he scored in the five matches.	
Tommy's mean was 30.	
He says, "I scored more runs than Chris."	
Use the data to comment on this statement.	
	(
Tommy's range was 75.	
Chris says, "I was more consistent than Tommy."	
Use the data to comment on this statement.	
	(

(Total 7 marks)