Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					

Thursday 21 May 2015 9.00 am to 10.15 am

For this paper you must have:

- a clean copy of the Data Sheet (enclosed)
- a calculator
- a protractor
- a ruler.

Time allowed

• 1 hour 15 minutes

Instructions

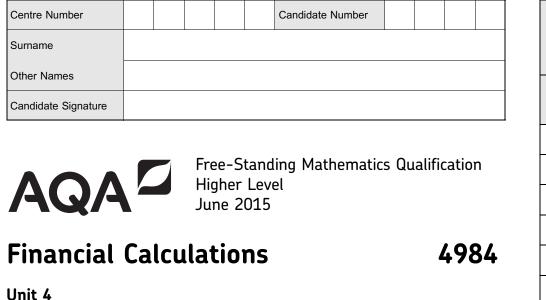
- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- You may **not** refer to the copy of the Data Sheet that was available prior to this examination. A clean copy is enclosed for your use.

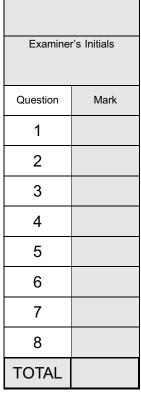
Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 50.
- You are expected to use a calculator where appropriate.

Advice

• In all calculations, show clearly how you work out your answer.





For Examiner's Use

Section A

Answer all questions.

Answer each question in the space provided for that question.

Use Fortress Finance on page 2 of the Data Sheet.

1	Alfie is going to university. He decides to borrow $\pounds 500$ to buy a laptop. He will repay the loan over 36 months.
	Fortress Finance agrees to loan him the $\pounds 500.$ They tell him that his repayments will be $\pounds 16.10$ per month.
1 (a)	By finding the total repayments which Alfie makes to repay the loan, calculate the total interest which he will be charged for borrowing this money. [3 marks]
	Answer
1 (b)	Express the total interest which Alfie will be charged for borrowing this money as a percentage of the amount borrowed.
	[2 marks]
	Answer



1 (c)	A formula which may be used to work out the APR charged when money is borrowed
	and repaid monthly is

$$\mathsf{APR} = \frac{24T}{A(n+1)} \times 100$$

where T is the total interest charged,

A is the amount borrowed and

n is the total number of repayments to be made.

Use this formula to find the APR	R which Allie is charged.				
	Answer				

Turn over for the next question



Section B

Answer all questions.

Answer each question in the space provided for that question.

Use Holiday costs on page 2 of the Data Sheet.

2 (a)

	A	В	C	D	Е
1		Total cost for group of four adults	Total cost for family of two adults and two children	Extra cost for family group	Extra cost as a percentage of total cost for four adults
2	Apartments Dunas Club, Fuerteventura	£1816	£2060		
3	Mirador del Atlantico, Playa Amadores, Gran Canaria	£1736	£1932		
4	Vista Blanes Apartments, Cala 'n Blanes, Menorca	£1852	£2025		
5	Sunset Village Altinkum, Bodrum, Turkey	£1476	£1611		

Prices were correct for departures on 3 August 2013.

	Complete the spreadsheet to give:	
2 (a) (i)	the extra cost for the family compared to the group of four adults; [1 mail	r k]
2 (a) (ii)	the extra cost as a percentage of the total cost for four adults.	
	Give the percentages to one decimal place. [4 mark	(ຣ]



2 (b) Which holiday had the largest percentage increase in cost for the family rather than the group of four adults?

Put a tick (\checkmark) against the one correct answer.

[1 mark]

Apartments Dunas Club, Fuerteventura	
Mirador del Atlantico, Playa Amadores, Gran Canaria	
Vista Blanes Apartments, Cala 'n Blanes, Menorca	
Sunset Village Altinkum, Bodrum, Turkey	

6

Turn over for the next question



Section C

Answer all questions.

Answer each question in the space provided for that question.

Use Company benefits on page 3 of the Data Sheet.

3	The company sends the best three sales representatives to Spain.
3 (a)	One of the representatives goes to a waterpark and is charged ${\leqslant}42$. The exchange rate is ${\leqslant}1.17$ to ${\pm}1$.
	Calculate this cost in pounds. [3 marks]
	Answer
3 (b)	The three representatives go out to dinner and agree that the total cost of ${\in}66$ will be divided between them in the ratio $3{:}4{:}5$.
	How much is paid by the person who pays the most? [3 marks]
	[3 marks]



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3 (c)	The holiday costs the company £546 for each representative.	
	The total cost for three people is 84% of the total cost for four people.	
	How much extra would the company have paid if it had sent the best four sales representatives instead of three?	
	[5 marks]	
	Answer	

Turn over for the next question

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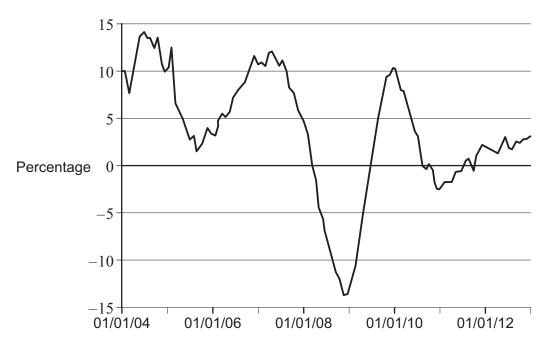
Section D

Answer all questions.

Answer each question in the space provided for that question.

Use House prices on page 3 of the Data Sheet.

The Office for National Statistics (ONS) produced the graph below to show the annual percentage increase in house prices from 2004 to 2013.



4 (a)	State when the annual	percentage increase in	house prices was the	greatest.
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[1 mark]

Answer			
ALISWEI			

4 (b) On 1 January 2008, Chloe bought a house for £142 000.

The graph shows that on 1 January 2009, the annual percentage increase in house prices was -13%.

Calculate the expected price of Chloe's house on 1 January 2009.

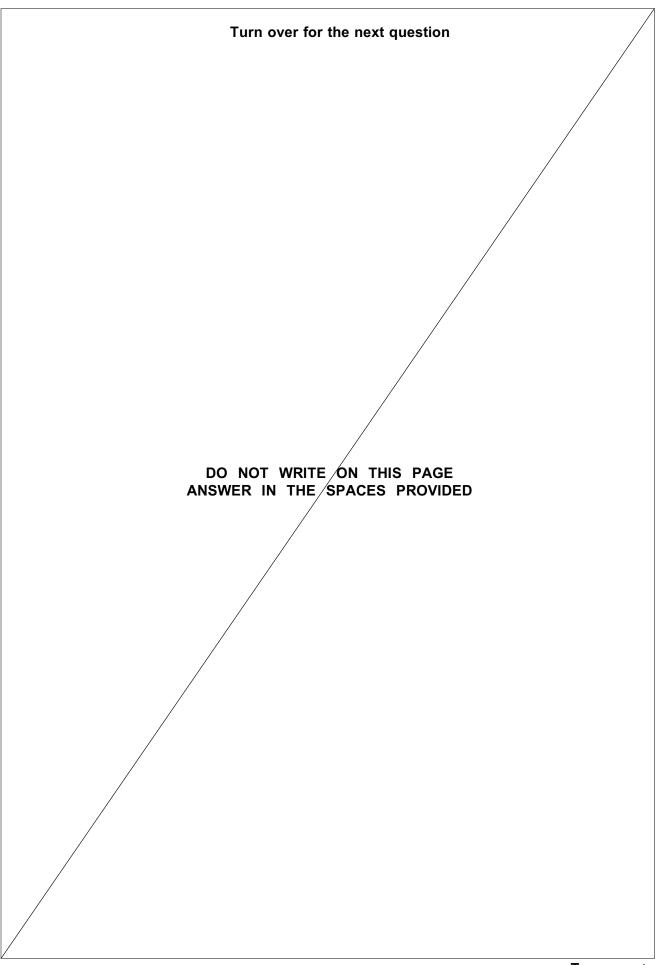
2 marks	
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Answer

3







Section E

Answer all questions.

Answer each question in the space provided for that question.

Use Mortgages on page 4 of the Data Sheet.

5 (a)	Paul and Julie take out a mortgage of $\pounds 90~000$ repayable over 25 years. The monthly repayment will be $\pounds 431$.
5 (a) (i)	If they pay $\pounds 200$ per month more than $\pounds 431$, Paul and Julie would repay the mortgage in 14 years.
	How much would they repay in total? [2 marks]
	Answer
5 (a) (ii)	If Paul and Julie decide to pay only $\pounds 60$ per month more than $\pounds 431$, their total repayment would be $\pounds 114~894$.
	How long, in years and months, would they take to pay off their mortgage by making this extra repayment of $\pounds 60$ per month?
	[3 marks]
	Answer
5 (b)	The total repayment for the whole of a mortgage is much less when the number of years of the mortgage is less.
	Why would a person take out a mortgage over a long period of time? [1 mark]



6

6 (a)	There is normally a one-off fee to set up a mortgage. This fee may be added to the mortgage.
	Assume that the interest rate does not change during the life of the mortgage.
6 (a) (i)	In what circumstances would it be sensible to select a mortgage which has a high fee but has a relatively low interest rate?
	[1 mark]
6 (a) (ii)	In what circumstances would it be sensible to select a mortgage which has no fee but has a relatively high interest rate?
	[1 mark]
6 (b)	Kathy says she pays about ± 930 every month for her mortgage. This amount is correct to the nearest ten pounds.
	What is the maximum possible amount of this monthly payment? [2 marks]
	Answer

Turn over for the next question



Turn over ▶

Section F

Answer all questions.

Answer each question in the space provided for that question.

Use Taxation 2014–2015 on page 4 of the Data Sheet.

7 7 (a)	Nikita earned $\pounds 4075$ per month and had a tax-free allowance of $\pounds 10~000$. Calculate Nikita's taxable income. [3 marks]
	Answer
7 (b)	Calculate the amount of income tax which Nikita paid in the year. [5 marks]
	Answer



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Section G

Answer all questions.

Answer each question in the space provided for that question.

8	A shop starts its annual sale with an initial percentage reduction in all its prices. On the last day of the sale, the shop reduces all its prices by a further 20% . This means that all its goods have been reduced in price by 76% .	
	What was the initial percentage reduction made by the shop? [4 marks]	
	Answer	

END OF QUESTIONS



