SPECIMEN MATERIAL

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Centre number		Candidate number	
Surname			
Forename(s)			
Candidate signature			

Functional Skills Level 2 MATHEMATICS (8362)

Paper 1 Non-Calculator Paper

Specimen paper

Materials

For this paper you must have:

• mathematical instruments.

You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

Information

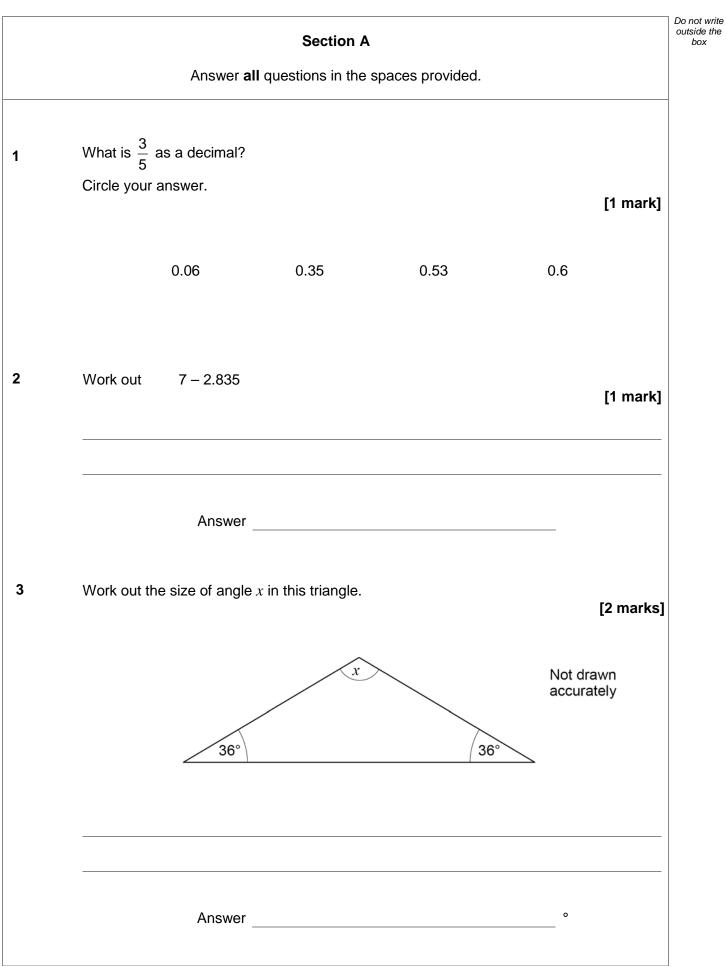
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 20.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

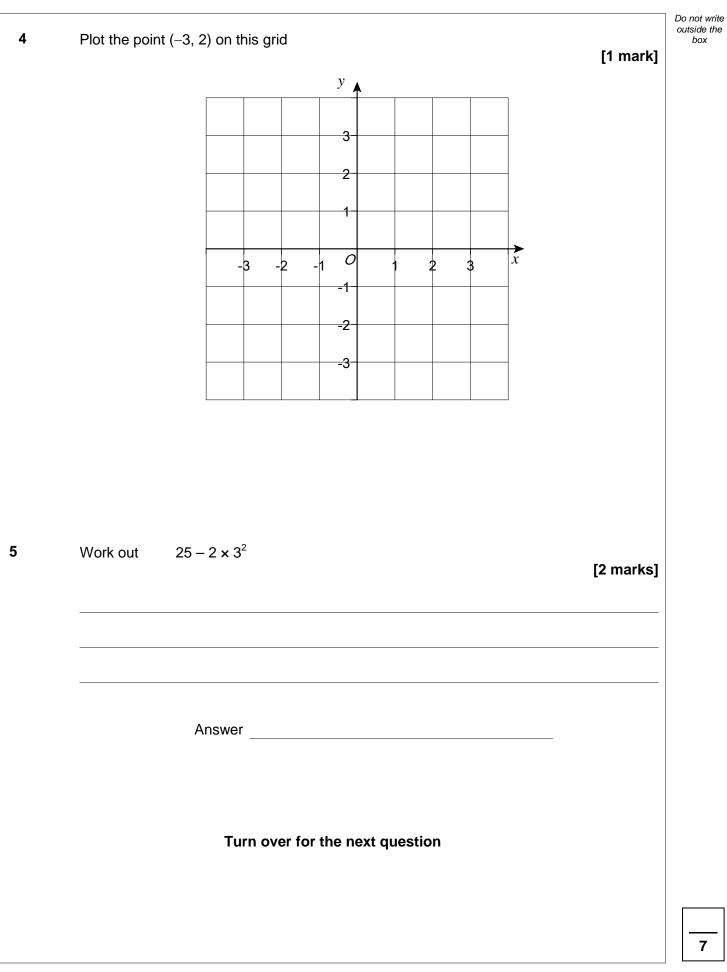
Advice

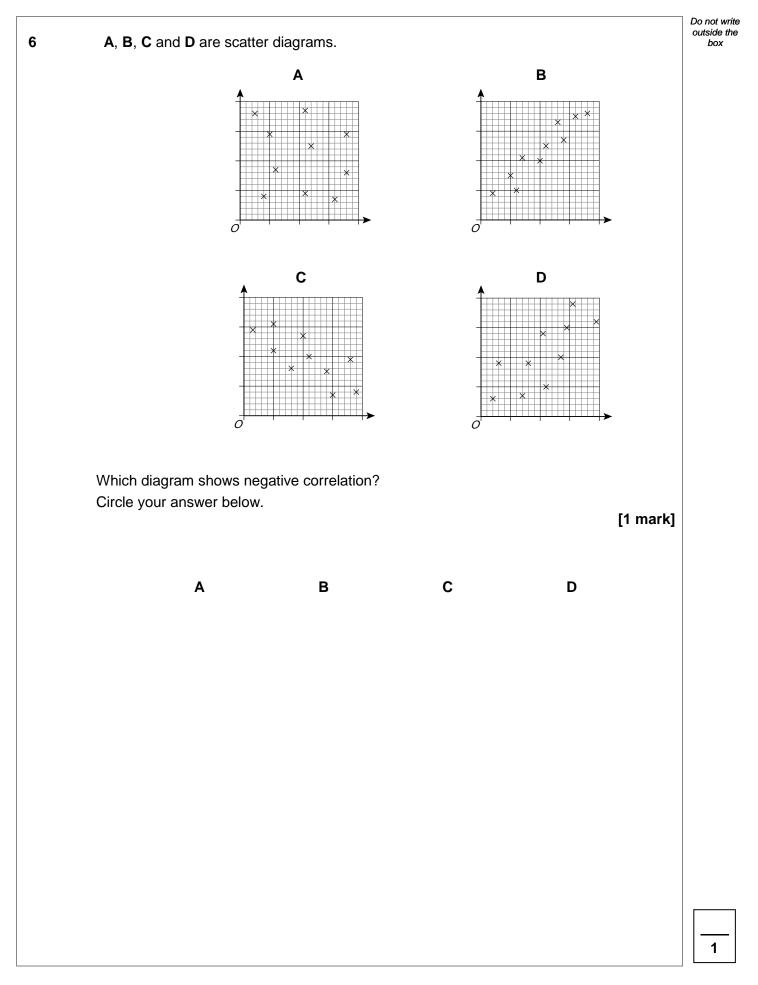
• In all calculations, show clearly how you work out your answer.

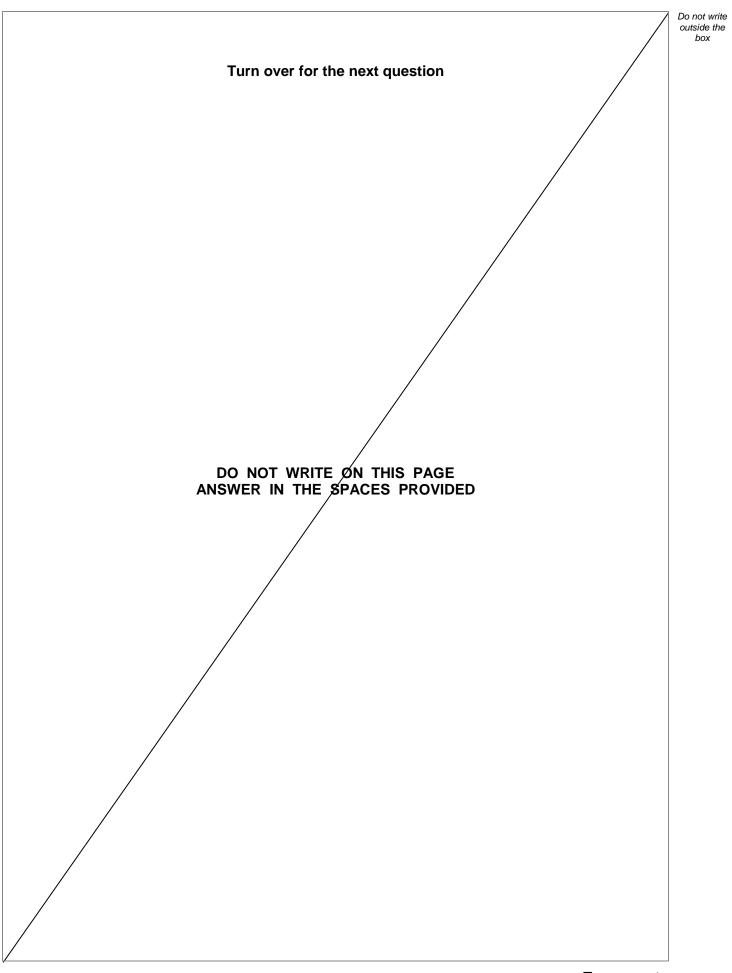
Time allowed: 30 minutes











Turn over ►

		Section E	5			
	Ans	wer all questions in th	e spaces	provided.		
Market	stall					
Lisa ma	kes fudge and	sells it on a market st	tall.			
Lisa ma	kes fudge usir	ng these ingredients.				
		sugar	500	grams]	
		butter	85	grams		
		evaporated milk	175	grams		
		milk	150	millilitres		
		flavouring	20	millilitres		
Lisa wa She alre	nts to make er	udge for 4 boxes. hough fudge for 48 box ilograms of sugar. gram bags.	xes.			
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 box ilograms of sugar.				
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	nough fudge for 48 bo: ilograms of sugar. gram bags.				[5 marks]
Lisa wa She alre Sugar is	nts to make er eady has 1.4 k s sold in 1 kilog	hough fudge for 48 box alograms of sugar. gram bags. gar does she need to				[5 marks]

			Do r
7 (b)	Lisa sells the fudge in three flavours: strawber	ry, vanilla and mint.	outs
	She looks at the number of boxes of each flav	our she has sold in the last few weeks.	
	Strawberry 60		
	Vanilla 140		
	Mint 40		
	This week, Lisa makes 48 boxes.		
	Using the data above, how many boxes of eac	ch flavour should she make?	
	You must show your working.	[4 marks]	
	Strawberry		
	Vanilla		
	Mint		
	Question 7 continues on t	ne next page	

				Do not write
7	(c)	Lisa has to drive 50 miles to the market.		outside the box
		The market starts at 9 am		
		She needs to arrive at least half an hour before the market starts.		
		She leaves home at 7.10 am		
		Lisa says,		
		"If I drive at an average of 40 miles per hour I will be there in time."		
		Is she correct?		
		You must show your working.		
			[3 marks]	
				3
		END OF QUESTIONS		
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SPECIMEN MATERIAL

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Candidate signature			

Functional Skills Level 2 MATHEMATICS (8362)

Paper 2 Calculator Paper

Specimen paper

Materials

For this paper you must have:

- a calculator
- mathematical instruments.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.
- If your calculator does not have a π button, take the value of π to be 3.142

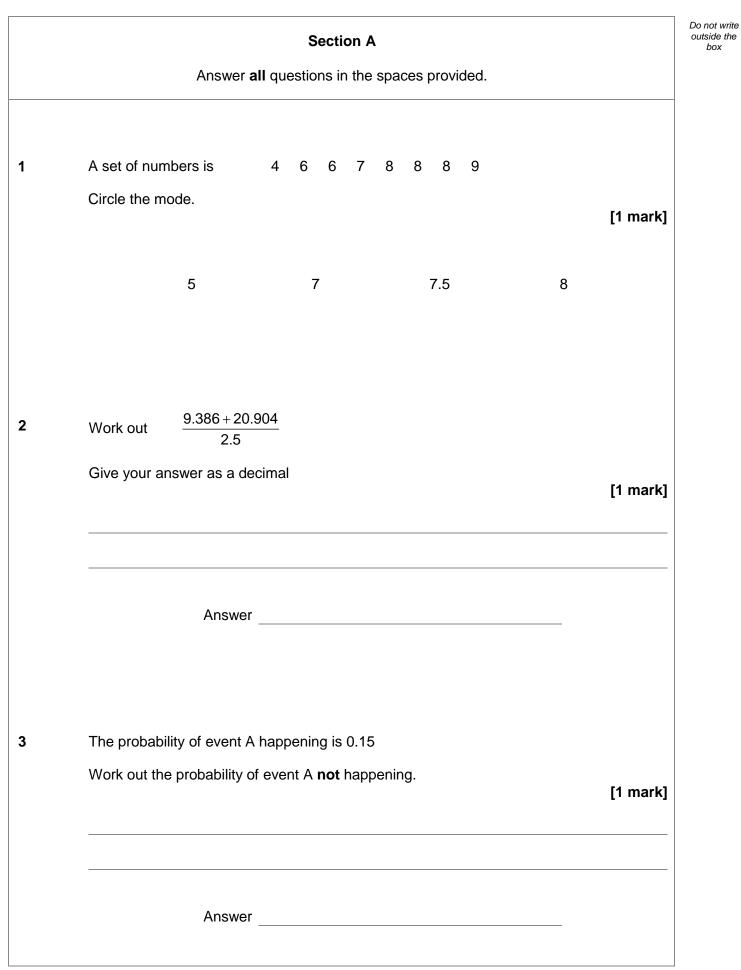
Advice

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

Time allowed: 1 hour 30 minutes

For Examiner's Use				
Pages	Mark			
2-3				
4–5				
6–7				
8–9				
10–11				
12–13				
14–15				
16–17				
18–19				
20				
TOTAL				





Circle the calculation that increases £260 by 17% 4 [1 mark] 260 + 0.17 260 × 0.17 260 + 1.17 260 × 1.17 5 Write in digits four hundred and three thousand, seven hundred and twenty. [1 mark] Answer Work out $5\frac{3}{4} - 1\frac{1}{8}$ 6 [1 mark] Answer

6

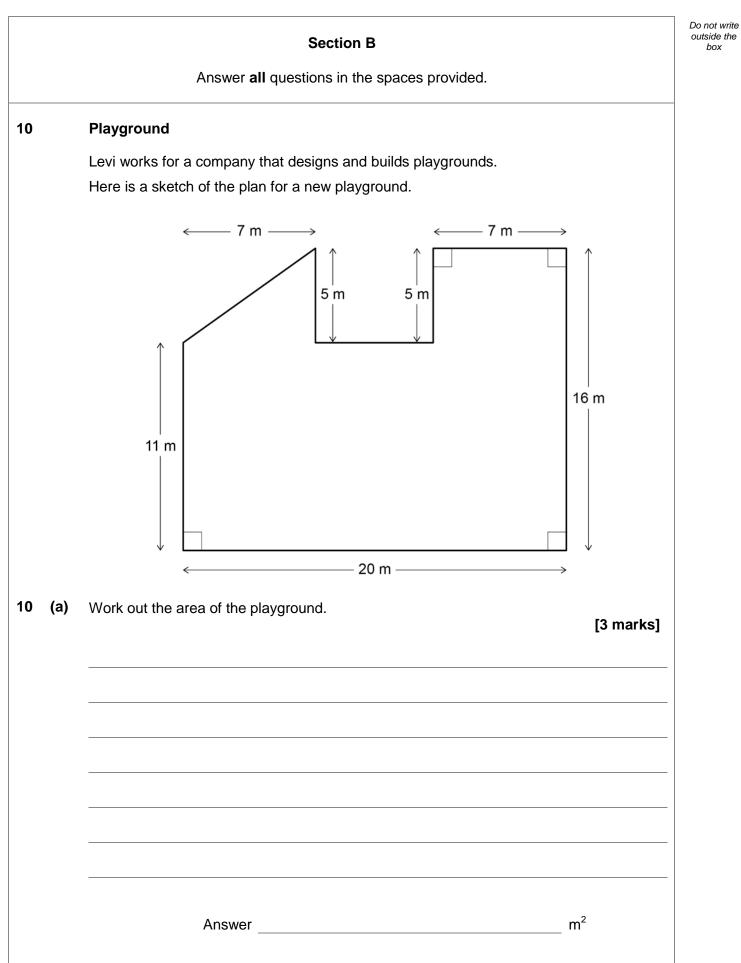
Do not write outside the

box

		1 _
A circle of radius 5.2 cm is inside a circle with radius 8.3 cm Not drawn accurately		Do not wr outside th box
Work out the shaded area.		
	[2 marks]	
Answer	cm ²	

	our cubes i	n this L-	shape h	as side	e leng	th 1 ce	entime	tre.		
On this centim	netre grid d	lraw a p	lan view	of the	L-sha	pe.				[1 mark]
			I		1	1				
Work out the	percentage	e decrea	ise from	5200 t	o 410	8				[3 marks]
									%	

Turn over ►



10	(b)	The surface of the playground will be covered with rubber chips and resin.	Do not write outside the box
		Levi uses 14 kg of rubber chips per square metre	
		He also uses resin, in the ratio	
		mass of rubber chips : mass of resin = 5 : 1	
		The resin is supplied in 25 kg tubs.	
		How many tubs does Levi need? [5 marks]	
		Answer	

10 (c) The table shows the items needed for the playground.

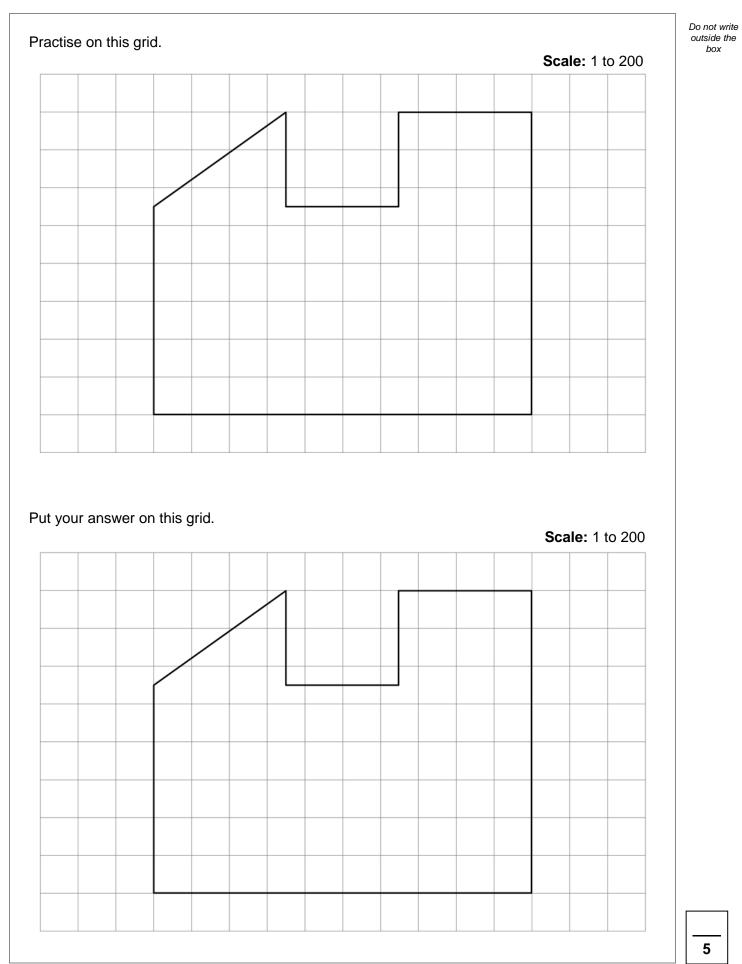
	Space needed
1 climbing frame	6 m by 6 m square
1 swing set	10 m by 4 m rectangle
1 sandpit	semicircle with radius 6 m
2 rockers	each 2 m by 2 m square

The playground is drawn to a scale of 1 to 200 on a centimetre grid.

On the grid, design a possible playground.

[5 marks]

Do not write outside the box



11 Fundraising

Padma is organising a fundraising event for a charity. The event will include

a 3-course meal a singer.

11 (a) Padma is working out how much to charge for a ticket to the event.The table shows the costs she expects to have.

Hire of venue	£1660
Meal	£14.25 per person
Fee for singer	£400
Other costs	£350

Padma expects 230 people to attend the event.

She wants to make a profit of at least £5000 to give to the charity.

Work out the smallest amount she should charge for a ticket. Give your answer to a suitable degree of accuracy. You **must** show your working.

[6 marks]

Do not write outside the box

	Do not write outside the
	box
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Answer £	
Question 11 continues on the next page	
	6

11 (b) Padma wants to have a number of flyers printed to promote the event.She sees these adverts for two printing companies

North Printers

Flyers: 200 for £3.25

Speedy Printers

Flyers: 1000 for £18

12.5% discount on orders over £70

It would cost £97.50 to have the flyers printed at North Printers.

How much would it cost to have the same number of flyers printed at Speedy Printers? [5 marks]

Answer £

Do not write outside the box

11	(c)	At the event, Padma sells 800 raffle tickets for £2 each.			
		Altogether, the people on one table spend £110 on raffle tickets.			
		Padma tells the people on the table,			
		"The probability that someone on this table wins the first prize is more than 5%"			
		Is she correct?			
		You must show your working.			
		[3 marks]			
		Turn over for the next question			

12 Quiz

Eve and Stefan each take part in a quiz every week.

They look at their scores in the first 12 weeks that the quiz takes place.

Here is a summary of the data for Eve.

Range	15
Mean	41.25

The frequency table shows the data for Stefan.

Score	Frequency
37	1
38	1
39	0
40	4
41	2
42	0
43	4

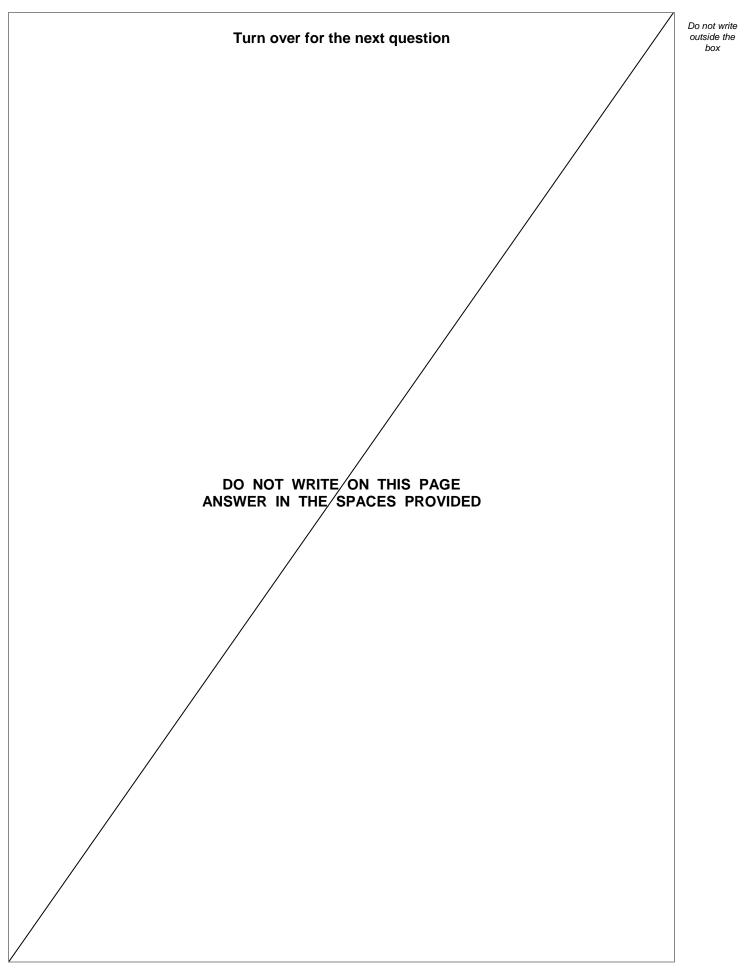
		_
Stefan says, "My scores were more consistent."		Do not write outside the box
Is he correct?		
Give a reason for your answer.		
You must show your working.		
	[2 marks]	
Eve says,		
"On average, my scores were higher."		
Is she correct?		
Give a reason for your answer.		
You must show your working.		
	[4 marks]	
		1

Question 12 continues on the next page

12 (a)

12 (b)

12 (c)	In the next quiz there are two multiple choice questions. Each question has 3 options to choose from. Stefan does not know the answers to the questions.	Do not write outside the box
	He chooses at random an answer to each question.	
	What is the probability that both his answers are correct? [2 marks]	
	Answer	



13	Candle company	
	Maya runs a company that makes and sells candles.	
13 (a)	The mass of wax, in grams, needed to make a candle can be worked out using	
	$W = v \times \left(\frac{100 - f}{100}\right) \times 0.83$	
	W is the mass of wax, in grams	
	v is the volume of the candle, in cubic centimetres	
	f is the percentage of fragrance in the candle	
	The company makes a candle in the shape of a cylinder.	
	The candle has radius 4 cm and height 15 cm	
	The candle has 10% fragrance.	
	Work out the mass of wax, in kilograms, required to make 2500 of these candles. [7 mark]	s]
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	Answer kg	

Do not write outside the box

13 (b)	The company sells large candles for £9.60 each, including 20% VAT.		Do not write outside the box
	How much VAT is there on each large candle?	[3 marks]	
	Answer		
	Question 13 continues on the next page		
			10

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40 ()		Do not write outside the
13 (c)	Katie works for Maya.	box
	She has an annual income of £19410	
	She has a personal allowance of £11850	
	She pays 20% tax on the rest of her income.	
	How much income tax should she pay in a year?	
	[3 marks]	
	Answer £	
	END OF QUESTIONS	3
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