Name:

Maths Genie Stage 5

Test C

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.
- Calculators may be used.

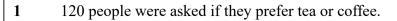
Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

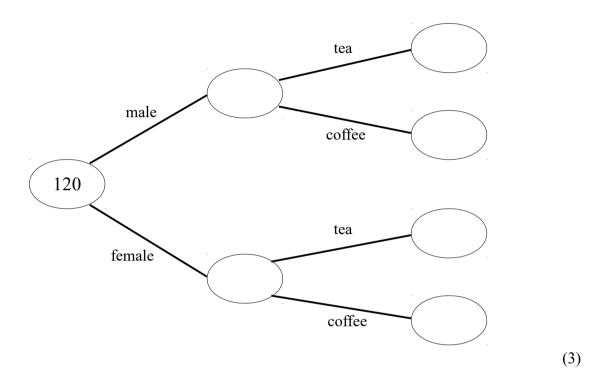
Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end





- 63 of the people were male.
- 34 of the females preferred tea.
- 68 of the people preferred coffee.
- (a) Use this information to complete the frequency tree.



One of the 120 people is chosen at random.

(b) Write down the probability that this person is female and preferred tea.

(1) (Total for Question 1 is 4 marks)

$\left(\right)$			
2	Dave is making cookies.		
	He mixes flour, butter and sugar in the ratio $5:4:1$		
	Dave uses 140 grams of butter. Work out how much flour and sugar Dave uses.		
		flour	orams
		sugar	
		(Total for Question 2	is 5 marks)
			_
3	A circular field has a diameter of 26 metres. A farmer wants to build a fence around the edge of the field.		
	Each metre of fence will cost £18		
	Work out the total cost of the fence.		
		£	
		(Total for Question 3	is 3 marks)

4	Solve	12t - 19 = 7t - 13	
			<pre>t =(Total for Question 4 is 2 marks)</pre>
5	350 students	are asked how they get to school.	(Total for Question 115 2 marks)
		dents either walk to school or get the bus to school	
	42% of the st	udents walk to school.	
	56% of the st 24% of the st	udents are boys. udents are boys who get the bus to school.	
	Work out how	v many girls walk to school.	
			(Total for Question 5 is 4 marks)

6 George is going on a trip to Vietnam.

He wants to change £950 into Vietnamese dong. George wants to get as many 200000 dong notes as possible.

The exchange rate is $\pounds 1 = 30\,000$ dong. Work out the greatest number of 200000 dong notes that George can get for $\pounds 950$

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(Total for Question 6 is 3 marks)

7 Last year Geri's council tax bill was £1945

This year she has to pay $\pounds 2025$ for her council tax.

Work out the percentage increase in her council tax bill.

Give your answer to 1 decimal place.

......%

(Total for Question 7 is 3 marks)

Colour	Frequency
Black	26
Silver	19
White	31
Blue	14

The table shows some information about the colours of cars parked in a car park.

Draw an accurate pie chart to show this information.

8

