Name:	

Maths Genie Stage 5 Test D

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

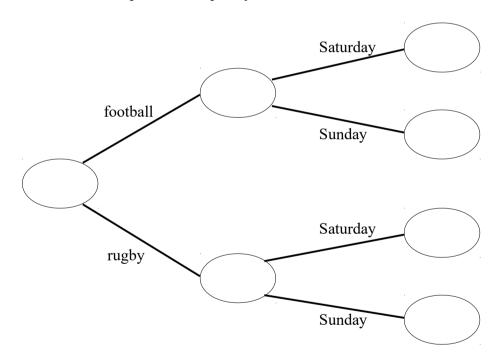


	Amy is on holiday in Turkey She changes £250 to Turkish lira.		
	The exchange rate is £1 = 9.8 Turkish lira		
	Calculate how many Turkish lira Amy receives		
		TL	
		(Total for Question 1 is 2 marks)	
_	D 11202 111 2017		
2	Banana computers sold 20.3 million computers in 2017.		
	In 2018, they sold 18.7 million computers.		
	Work out the percentage decrease in the number of computer	rs sold.	
	Give your answer to three significant figures.		
		%	
		% (Total for Question 2 is 3 marks)	
3	David is paid £28000 per year. He is going to get a 3% increase in the amount of money he	(Total for Question 2 is 3 marks)	
3		(Total for Question 2 is 3 marks) is paid.	
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$$\frac{y}{4} - 8 = 5$$

- 5 92 students either go to a football club or a rugby club at the weekend. Each student either goes to the club on Saturday or Sunday.
 - 60 of the students go to a football club.
 - $\frac{3}{5}$ of the students that go to a football club go on Sunday.
 - 48 students go to their club Sunday.

Use this information to complete the frequency tree.



(Total for Question 5 is 4 marks)

	771 1' 1 d		
6	The diagram shows three quaradius of 9 metres.	rters of a circle with a	
	Find the perimeter of the shap	pe.	9 m
_			
7	Megan is going to make a dri	nk using the instructions below.	
		Mix 2 parts of fruit juice with 5 parts of sparkling water	
	Megan has 180 ml of fruit juice and 460 ml of sparkling water.		
	What is the greatest amount of	of the drink Megan can make?	
			(Total for Question 7 is 3 marks)

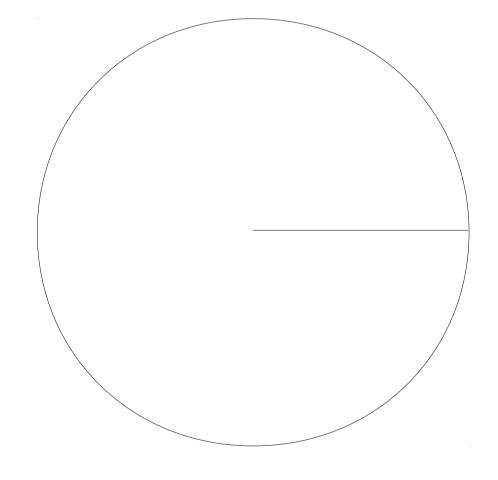
8 The table shows some information about the favourite biscuits of some people.

Biscuit	Digestive	Custard Cream	Shortbread
Frequency	10	16	19

(a) Which type of biscuit is the mode?

(1)

(b) Draw an accurate pie chart to show this information.



(3)

(Total for Question 9 is 4 marks)

10	100 students in year 7 either study French or German or Spanish.
	48 of the students are boys and the rest are girls.
	15 boys study German. 16 boys and 19 girls study French. A total of 30 students study Spanish.
	Work out how many girls study Spanish.
	(Total for Question 10 is 3 marks)