Name:	
	_

Maths Genie Stage 3

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



	Work out $\sqrt{\frac{38.1 - 2.85}{2.8 + 1.97}}$		
	Write down all the figures on your calculator disp	Jav	
	write down an the figures on your calculator disp	nay.	
			(Total for Question 1 is 2 marks)
			(Total for Question 1 is 2 marks)
	(a) Solve $x + 15 = 23$		
			x =
	(b) Solve $h + h + h + h = 44$		(1)
			h =
			(1) (Total for Question 2 is 2 marks
_			(Total for Question 2 is 2 marks
	$w = 2x^2 - 6$		
	x = -5		
	Work out the value of w.		
			(Total for Question 3 is 2 marks
	Write the following numbers in order of size.		
	Start with the smallest number.		
	$35\% \qquad \frac{3}{10} \qquad 0.2$	95 0.37	$\frac{2}{5}$
	···		(Total for Question 4 is 2 marks

	Amelia wants to buy 5 sausage rolls.	
	Each sausage roll costs 93p	
	Amelia pays with a £20 note.	
	(a) Work out how much change Amelia will get from £20.	
	£	
	(b) Wiles in the class A see it. Conference of the control of the	(2)
	(b) When in the shop Amelia finds out that the price of the sausage rolls has been increased.	
	How does this affect the amount of change she will get?	
•••		••••••
•••		(1)

(Total for Question 5 is 3 marks)

6 Here is a stem and leaf diagram showing the mass, in grams, of some apples.

15	5						
16	1	3	3	5	6	6	
17	0	3	5	5	8		
18	0	1	3	5			

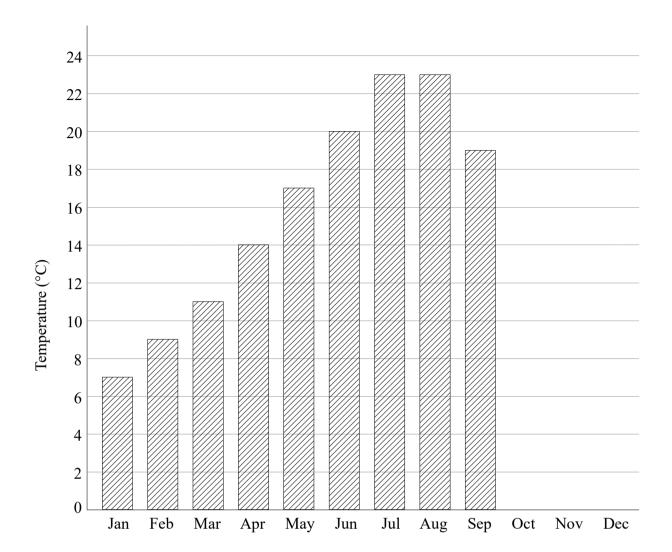
Key: 15 | 5 = 155 grams

Work out the median mass.

g

(Total for Question 6 is 2 marks)

7 Here is a bar chart showing the average maximum monthly temperature (°C) in Greenwich.



Here are the average monthly temperatures in October, November and December.

October 16°C November 11°C December 8°C

(a) Complete the bar chart to show this information.

(1)

(b) In which two months were the lowest average temperatures recorded?

..... and(1)

(Total for Question 7 is 2 marks)

Q	Here	ic a	list of	10	numbers
0	пеге	is a	HSt OI	10	numbers

4 4 5 5 5 6 6 7 8 9

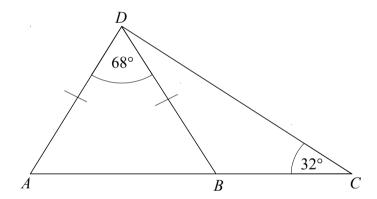
- (a) Find the mode.
- (b) Calculate the mean.

(1)

(2)

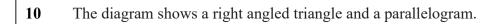
(Total for Question 8 is 3 marks)

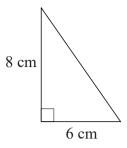
9 ABC is a straight line. Work out the size of the angle BDC.

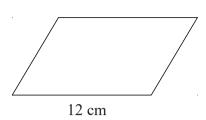


.....

(Total for Question 9 is 4 marks)







The area of the parallelogram is three times the area of the triangle.

The perpendicular height of the parallelogram is h.

Find the value of *h*.

1	
n =	
11	

(Total for Question 10 is 3 marks)