Name:	

Maths Genie Stage 2 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 not 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.

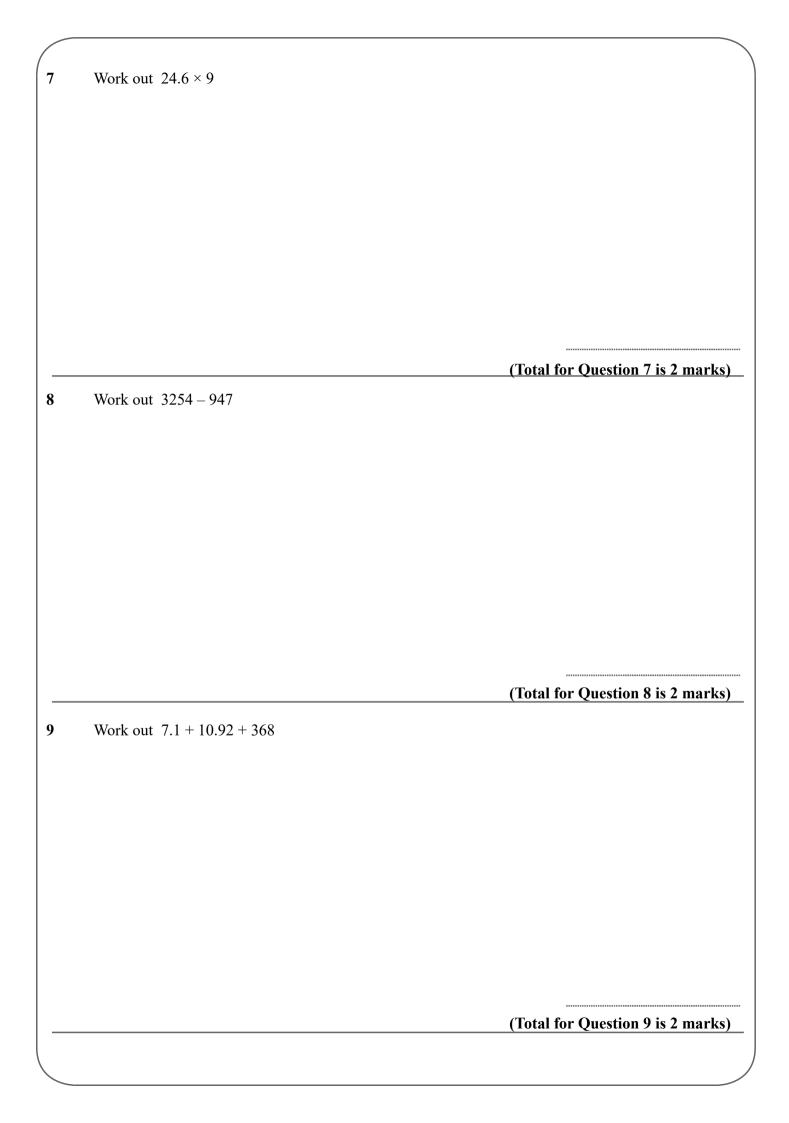
Advice

- 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



		(Total for Overti	1 : . 1
Weite 27 com	and to 1 significant figure	(Total for Question	on 1 is 1 mar
write 37 cor	rect to 1 significant figure.		
		(Total for Questic	on 8 is 1 mar
Andrew is go	oing to have a meal.		
He can choo	se one starter and one main from	the menu.	
	<u>Menu</u>		
	Main	Dessert	
	Lasagne Pizza Salad	Ice Cream Cake Fruit	
Write down all the possible combinations Andrew can choose.			
(Total for Question 3 is 2 marl			

4	There are 10 marbles in a bag.					
	5 marbles are red. 3 marbles are blue. 2 marble is green.					
	On marble is selected at random from the bag. (a) On the probability scale mark with a cross (X) the probability that the marble is red.					
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	(b) On the probability scale mark with a cross (X) the probability that the marble is yellow.					
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	(c) Write down the probability that marble is blue.					
5	(1) (Total for Question 4 is 3 marks) An adult cinema ticket costs £x					
	The price of a child's ticket is £5 more than the price of an adult ticket.					
	Write an expression for the price, in pounds, of a child's ticket.					
	(Total for Question 5 is 1 mark)					
6	Charles has <i>m</i> marbles. Rosalind has twice as many marbles as Charles					
	Write an expression for the number of marbles Rosalind has.					
	(Total for Question 6 is 1 mark)					



(a) Simplify $a \times 2 \times 5$	
(b) Simplify $b \times b$	(1)
(c) Simplify $\frac{2y + 6y}{2}$	(1)
	(1) (Total for Question 10 is 3 mark
Work out 516 ÷ 6	
	(Total for Question 11 is 2 mark