DAME ALICE OWEN'S SCHOOL

MATHEMATICS ENTRANCE EXAMINATION FAMILIARISATION

Time allowed: One	hour.			
Surname:		•••••		
First name(s):		•••••		
Registration No:		•••••	•••••	
Read these instructi	ons before you start:			
through the question	ons in this paper and each in the order that they ap If so, leave them until the	ppear. There	may be some	questions
	ch question to work out			
You may use a pen o	r pencil for this paper.			
Calculators are not al	llowed.			
		Mark and Percentage	Examiner	
		_		

For questions 1 to 3 use this information: A box contains 54 biscuits of which 16 are chocolate.

1.	How many biscuits are not chocolate?	
2.	How many people can have four biscuits each?	1
		III a gar
3.	How many biscuits are there in seven boxes?	
		low signature
4.	A school has 336 boys and 485 girls. How many pupils i	s this altogether?
		•
5.	Write in figures the number before fifty thousand.	

6.	Work out	4050 ÷	100.
· .	, , OIII O GIC		

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7.	If Tepresent an even number	smaller than	10 and if □<5	state a possible
	value for □			

......

8. Which of these fractions are greater than one half?

$$\frac{3}{5}$$
 $\frac{3}{7}$ $\frac{5}{12}$ $\frac{8}{15}$

9. Find the missing number.

$$513 + \Box + 130 = 764$$
.

.....

10. How many right angles are there in two complete turns?

11. W	hich of the	ese letter	s does N	OT hav	e line s	ymmetry?		
	E	M	l L	Υ				
				6 -				
For que	estions 12,	13 and 1	4 use th	is diagr	am.			
	3en	n	50	-m				
			4cm					
12. Ca	lculate the	perimete	er of this	triangle				-
								cm
13. Est	imate the a	rea of th	is triangl	e.				in add be
								cm²
	lace two tri adrilateral f		dentical	to this)	togethe	r along the	diagonal.	Name the

15. I cook rice for four people. grammes, remains from a 1 l		How much, in
		g
16. My journey to school general home if I want to arrive at 8.		time shall I leave
		a.m.
	•	
For questions 17 and 18 use th	is information.	N. C. S. C.
The second secon		
For questions 17 and 18 use the In my pencil case there are six put 17. If I take out one item and we the chances?	pencils and two pens.	nese words best describes
In my pencil case there are six p 17. If I take out one item and w the chances?	pencils and two pens. It want it to be a pen which of the	nese words best describes
In my pencil case there are six p 17. If I take out one item and w the chances?	pencils and two pens. It want it to be a pen which of the	
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In my pencil case there are six p 17. If I take out one item and w the chances?	pencils and two pens. vant it to be a pen which of the vens: fairly unlikely: imp	possible
In my pencil case there are six p 17. If I take out one item and w the chances? certain: fairly likely: ev 18. How many pens should I ac	pencils and two pens. vant it to be a pen which of the vens: fairly unlikely: imp	possible
In my pencil case there are six p 17. If I take out one item and w the chances? certain: fairly likely: ev 18. How many pens should I ac	pencils and two pens. vant it to be a pen which of the vens: fairly unlikely: imp	possible

19. This diagram shows the results of a class survey concerning pets.

	Boys	Girls	Totals
Have at least 1 pet	11		1
TI		O	
Have no pets		0	
Totals	16		30

How many children have at least one pet?

For questions 20, 21 and 22 consider this number pattern.

3 7 11 15 1

20. Which number is NOT prime?

21. Which number is a factor of 28?

22. What is the next number in the pattern?

			£
4. A giant si	ze toy box contains 400 bricks. I	How many bricks	will there be in 36
boxes?			
or question	s 25 and 26 use the information	provided in this	box.
	NEWTON'S MAN	OR	
	Opening Hours	Prices	
	SAT: 9 till 5	Adult: £2.40	
		Child: £1.60	
	WEDS &		
	FRI: 2 till 5 Car	Park: £1.50	
5 For how	nany hours is it open each week?		
. J. 1 01 110 11			
.s. rornow	•		
3.10110			
23.101101			hours
			hours
26. How mu	ch change would there be from a s	£20 note for Alice,	
26. How mu		£20 note for Alice,	
26. How mu and Gran	ch change would there be from a s	E20 note for Alice,	
26. How mu and Gran	ch change would there be from a sifthey use the car park?	£20 note for Alice,	
26. How mu and Gran	ch change would there be from a sifthey use the car park?	E20 note for Alice,	
26. How mu and Gran	ch change would there be from a sifthey use the car park?	£20 note for Alice,	
26. How mu and Gran	ch change would there be from a sifthey use the car park?	E20 note for Alice,	
26. How mu and Gran	ch change would there be from a sifthey use the car park?	E20 note for Alice,	

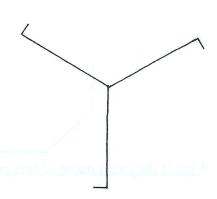
23. Robbie saves £3.50 every week. How much does he save in a year?

27. a * b means multiply the two numbers together and then subtract the large So $4 * 6 = 24 - 6$	r.
= 18 Find the value of 8 * 3.	
That the value of 6 3.	
Faire tow box contains 400 pmg/s areas some first such to the firs	
	and the second
28. How many quarters are there in 3½?	
and the second between a structure and the second beautiful and	
29. Give a decimal number lying between 7.2 and 7.3.	
i som foreste li si segori pro est	
30. State a compass direction that is perpendicular to South West.	

La company of the control of the company of the company of the control of the con	
31. One inch is about 2.5 centimetres. How many inches are roughly equal to metre?	1

For questions 32to 35 consider this drawing of a regular po	olygon.
NOT TO SCALE	
32. What is the exact name of this polygon?	
33. How many lines of symmetry does it have?	
	8
42. An online rate of the control of	
34. If each side is 6 centimetres long calculate the perimeter.	
	cm
35. The angles are all the same size, because it is regular. Whe given to an angle of this size?	nat is the special name

For	questions	36	and	37	use	this	shane



36. What is the order of rotational symmetry of this shape?

37. How many lines of symmetry has this shape?

38. This diagram illustrates a survey into theme park rides.

Galaxy 田田田 G5

Laser 田田日 50

Roller-coaster \blacksquare \blacksquare \blacksquare 60

Spaceship 田田 田

How many people favoured "the Spaceship"?

For questions 39 to 43 make the most appropriate choice from this list to describe the chances.
impossible: very unlikely: unlikely: as likely as not: likely: very likely: certain
39. When thrown a coin will show heads.
THE REPORT OF THE PARTY OF THE
40. A bicycle will have two wheels.
41. A boy selected at random from Year 7 will have red hair.
42. An ordinary dice will show a number below ten.
Jacobs and the second of the s
43. A card selected from a normal pack of playing cards will not be black or red.
44. £17.20 ÷ 10.
£

45. A calculator is used to divide £17.20 by 8. is £17.20 \div 8?	The disp.	iay silov	ws 2.13. I	10W Much
	1.7 2 1	, "	£	. 9x1xx <u>Q[</u>
46. A calculator is used to divide £17.20 by 9. How much is £17.20 ÷ 9, to the nearest pen		lay shov	vs 1.91111	11 <u>1</u> .
			£	****
47. List all the factors of 36.		Ohio Dheen Ail season see see see see see see see see see se		
			in	
48. One day in January only 55% of a class of 4 How many pupils were present?	40 childrer	n were p	oresent at s	chool.
49. The following day 24 pupils were present, o	out of 40.	Write t	his as a pe	rcentage.

50. Owen did not understand a probleshould have divided by 100. His answer have been?	lem properly. is answer was 6	He multiplied 2 800 000. N	l by 100 when he What should his