SECONDARY SCHOOLS ANNUAL EXAMINATIONS - 2003

Educational Assessment Unit - Education Division

FORM 2 MATHEMATICS (NON-CALCULATOR) TIME: 10 minutes

Name

Class

• ANSWER ALL QUESTIONS.

- EACH QUESTION CARRIES 1 MARK.
- CALCULATORS, RULERS, PROTRACTORS AND OTHER MATHEMATICAL INSTRUMENTS ARE NOT ALLOWED.
- WRITE DOWN YOUR ANSWER ONLY IN THE SPACE PROVIDED.

DO NOT WRITE IN THIS SPACE

Mark

QUESTIONS	Space for working if required
1. Lm8 – Lm6.49	
2. The diameter of an orange is about: a) 7 mmb) 7 kmc) 7 cmd) 7m	
3. Write down the next number in the pattern:	
1 3 6 10 15	
4. What fraction of the shape is shaded?	
5. Place the correct symbol $> < \text{ or } = 0.7$ $3 = 3 = 3$	
6. Find x if $x - 7 = 9$	
7. The size of angle x is about:	
a) 40° b) 100° c) 150° d) 170°.	
8. $\frac{2}{9} + \frac{1}{3}$	
9. Find the area. 20 cm	
10 cm	
10. What is the value of 5 in 87.54?	
	I

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2003

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FOR	ORM 2 MATHEMATICS (Main Paper)											TIME: 1 h 50 min							
Quest	ion	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Main	Mental	Global Mark
Mar	k																		
	DO NOT WRITE ABOVE THIS LINE																		
Name																			
Clas	s																		
	CALCULATORS ARE ALLOWED																		
ANS	SWI	ER	AL	LQ	UE	STI	ONS	5.											_
1.	(a)	(i) Wr	ite 78	39 co	rrect 1	to the	neare	st 100).					_				
		(i	i) Wr	ite 4]	198 a	correc	t to th	e neai	est 10	000.					_				
	(b)	(i) Woi	rk out	: 4	27.6	÷ 1	0											
		(i	i) Gi	ive tł	ne sm	alles	st cor	nmo	n mu	ltiple	of 6	5 and	19.		_				
															_			(4 marks)
2.	(a)	F	ind t	he va	alue	of 4^3	-												
	(h)	Б	in d 4	1	-1		<u>81</u>								-				
	(0)	Г	ma ı	ne va	aiue	51 V	01.								_				
	(c)	U	Jse a	calc	ulato	r to f	ind t	he va	alue o	of √	7.84	4.							
															_				
																		((4 marks)
3.	(a)	E	xpre	ess 8	30%	as a	frac	tion i	n its	lowe	est ter	ms.							

(b) Find 15% of 4.6 metres. (Give the answer in **centimetres**.)

- 4. Tom works from 7.40 a.m. to 12.10 pm. everyday, fom Monday to Saturday.(a) How many hours and minutes does he work everyday?
 - (b) How many hours does he work in a week?



6. (a) The figure shows a round pool. The diameter of the pond is 6 metres. Find the circumference of the pond. (Give the answer correct to two decimal places.)





(b) The volume of a cuboid is 172.8 cm^3 . The cuboid is 6.4 cm long and 4.5 cm wide. What is the height of the cuboid?





8. Complete the given drawing so that the dotted line is the line of symmetry.



9. (a) Tom types these commands using LOGO. PD

FD 100 REPEAT 4 [FD 20 RT 90]

Draw what he sees.



(b) Anna is using a spreadsheet.

	А	В	С
1	4	3	5
2	2	6	
3	6	9	9

She types the numbers as shown. She then types the formula =A2+B2/3 in cell C2. What does she get when she types *ENTER*?

(6 marks)

10. (a) Mary buys three videos and four compact discs. Each video costs Lm*X* and each compact disc costs Lm2*X*.

Write an expression to show how much she spent altogether.

(b) Solve the equation: (i) a-5 = -6

(ii) 2b + 3 = 8 - 3b

(6 marks)



(8 marks)

13. The figure shows a function machine.



(i) the letter **N**

(ii)	the letter ${f E}$									
(iii)	the letter ${f S}$									
(iv)	a vowel								(8	marks)
15(a)(i) Wh	at is the mean of this s	et of numbers?								
	24	13	16	20)	32				
	14	9	22	5		11				
(b) A gr	oup of children were as (i) How many child group?	sked the number ren were there in	of pets they b	had at hom	e. The fo	ollowing	bar grapl	h shows	the rest	ults.
	(ii) How many ch three pets?	ildren have m	ore than	e ⁶ ⁶						
	(iii) How many pe	ts are there in	all?	$\begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$	1	2	3	4		5
							PET	ГS	(8	marks)

END OF PAPER