JUNIOR LYCEUMS ANNUAL EXAMINATIONS - 2002

Educational Assessment Unit - Education Division

FORM 1	MATHEMATICS (MENTAL)	TIME: 10 min.
Name		Class
	Mark	
 ANSWER ALL QUEST EACH QUESTION CA CALCULATORS, RUINSTRUMENTS ARE WRITE DOWN YOUR THIS PAPER CONTAIN 	TIONS. RRIES 1 MARK. ULERS, PROTRACTORS AND OTHE NOT ALLOWED. ANSWER ONLY IN THE SPACE PROVIDEI	R MATHEMATICAL D.
	DO NOT WRITE IN THIS SPACE	

	QUESTION	SPACE FOR WORKING IF REQUIRED
1.	<i>a</i> ° is roughly: (A) 90° (B) 180° (C) 330° (D) 270° Ans:	
2.	What is the value of 25% of Lm4.44? Ans: Lm	
3.	Underline the correct answer. The perimeter of this rectangle is: (A) $5a$ (B) $4a^2$ (C) $10a$ 4a (D) $2a^2$	
4.	Evaluate: $2\frac{1}{3} + 3\frac{2}{3} + 2$ Ans:	
5.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

	QUESTION	SPACE FOR WORKING IF REQUIRED
6.	Write down the mean of 98, 102, 101, 99, 100. Ans:	
7.	Find the total cost of 80 copybooks at 28c each and 80 notebooks at 22c each. Ans: Lm	
8.	Underline the correct statement: (A) $\frac{8}{9} > \frac{80}{90}$ (B) $\frac{8}{9} < \frac{80}{90}$ (C) $\frac{8}{9} = \frac{80}{90}$ (D) $\frac{8}{9} = 0.8$	
9.	Michael thinks of a number. He multiplies it by 3, then divides it by 9 and finally multiplies it again by 3. The result is 12. What is the number Michael thinks of? Ans:	
10.	Underline the incorrect statement: (A) $a^{\circ} = c^{\circ}$ (B) $a^{\circ} = b^{\circ}$ (C) $a^{\circ} = 180^{\circ} - c^{\circ}$ (D) $d^{\circ} = 180^{\circ} - a^{\circ}$	

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FORM	DRM 1MATHEMATICS (Main Paper)TIME: 1 h 5									50 min								
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Main	Mental	Global Mark
Mark																		
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Name _	Name Class																	
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ANSW	VEH	R AL	LQ	UE	STI	ONS	5.											
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(a	.)			1 r	oenci	1.					(b)			7	simil	ar penc	eils.	
																	(4	marks)
2. M	lark	all th	e line	es of	symr	netry	, if a	ny, i	n the	follo	wing	g lette	ers:					,
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4. (a jl/Form 1	l) /Mai	These n /2002	e LOO	GO c	omm	hands	s mak	te the	e turt	le dra	ıw			FD RT FD RT FD	100 30 200 120 200)))	page 1 o	of 8

this symmetrical shape. Fill in the blanks.



(b) Work out the total distance travelled by the turtle, in turtle steps, in order to draw this shape.

(4 marks)

5. The diagram shows part of a spreadsheet.

	C
1	5
2	7
3	9
4	= SUM(C1:C3)
5	= AVERAGE(C1:C3)
6	=MAX(C1:C3)
7	=MIN(C1:C3)
0	

What number will be shown in the following cells?

(a) C4 _____ (b) C5 _____

(c) C6 _____

(d) C7 _____

(4 marks)

6. (a) Add the value of the digit 8 in 985 to the value of the digit 7 in 37.4

.....

(b) Evaluate: $60 - 8 \times 6$

(c) Fill in:
$$\frac{5}{8} = \frac{30}{24} = \frac{30}{24}$$

(6 marks)

7. From the set of numbers

20, 21, 22, 23, 24, 25, 26, 27, 28.

write down:

8.

(a) the largest even number	
(b) the smallest odd number	
(c) the common multiple of 3 and 4	
(d) the prime number	
(e) the factor of 40	
(f) the square number	
	(6 marks)
Work out: (a) $2\frac{5}{9} + 3\frac{2}{9} - 1\frac{2}{3}$	
(b) 2.5 cm Find th 0.7 cm	e area of this rectangle.
	cm ² (6 marks)

9. Fill in the empty spaces of the following function machines:



10. Construct a **REGULAR HEXAGON** of side 6cm.



- (ii) in litres.
- (b) How many $2\frac{1}{2}$ litre bottles can be filled from this amount of water in the tank?

12. (a) Choose from these words to fill in the blanks:

(8 marks)

a complete revolution



- (b) Find, giving reasons for your answers, the value of :
 - (i) angle *e*
 - (ii) angle *f*

13. (a) Simplify: 8b + 5a + 3b - 8a + 9b

(8 marks)

(b) Solve the equation: 5x - 20 = 10

(c) A plane left Malta on Tuesday at 22:50. It arrived in London on Wednesday at 01:45. How long was the flight?

Answer: <u>h</u> min

(d) John is carrying 3 boxes, each weighing 900 g. George is carrying a parcel weighing 2.5 kg. Who is carrying most weight and by how much?

(8 marks)

14. The following pie-chart gives us information on how Ryan spent last Tuesday.



- (a) Calculate *x*.
- (b) For how many hours did he study?
- (c) What percentage of the day did he spend at school?
- (d) Show all the information in the pie-chart on the bar chart below:



A (-2, 11) B (4, 11) C (4, 5) D (6, 5) E (6, 0) F (-4, 0) G (-4, 5) H (-2, 5)

- (b) Join the points in alphabetical order. Join H to A.
- (c) Draw any lines of symmetry of the shape ABCDEFGH.
- (d) Work out the area of this shape.



(8 marks)