

JUNIOR LYCEUM & SECONDARY SCHOOL ANNUAL EXAMINATIONS 2007

Educational Assessment Unit – Education Division

MATHEMATICS – Scheme A TIME: 45 minutes (Non-Calculator Paper)



DO NOT WRITE ABOVE THIS LINE

Name : _____

Class : _____

INSTRUCTIONS TO CANDIDATES

- Answer all questions.
- This paper carries 40 marks.
- Calculators and protractors are not allowed.

1.	Write this number in words:	2 100 000			
2.	Put in order , starting with the small	est.			— (1 Mark)
	one million	10 ⁸ ten	thousand	10 ⁵	
					(2 Marks)
3.	Work out:				
	(a) 400 × 2800				
	(b) 16000 ÷ 400				
4.	Complete:				— (2 Marks)
	(a) $60 \times \dots = 4200$				
	(b) $\div 300 = 72$	200			
5.	This mp3 player is marked Lm37 . When I buy this mp3, I am given a 2 (a) How much money do I save ?	5% discount.		L m 37 25% off	(2 Marks)
	(b) How much do I pay for the mp3	3?	Lm		
			Lm		(3 Marks)



- 8. (a) Write the first six **prime** numbers.
 - (b) Write 270 as the **product** of its prime factors.

9.	Work out: (a) $\frac{8}{9} \times \frac{3}{16}$
	(b) $\frac{3}{4} - \frac{1}{5}$
	(c) Moira finished $\frac{1}{3}$ of her homework before 5:00 p.m. She then finished $\frac{2}{5}$ of her homework before watching her favourite TV programme. What fraction of her homework was ready by then?
10.	A hiker left home at 06:15 . She stopped at 10:35 and rested for 40 minutes . She then walked for another two hours and arrived at Mellieħa.
	(a) At what time did she arrive at Mellieħa?
	(b) How long did the whole journey take?
	hoursminutes (4 Marks)
11.	John uses 0.98 litres of petrol everyday to drive to work and back. He does not work on weekends.
	How much petrol does he use, per week , to drive to work and back?
	litres
	(3 Marks)

12.		Calculate:		
		(a) angle <i>r</i>		
	r 110°	(b) angle p	0	
				(2 Marks)
13.	Work out the following:			
	(a) $(-2) + (-4)$			
	(b) $(-6) \times (-4)$			
14.	Mario shares Lm68.31 equally am	nong 4 friends.		— (2 Marks)
	Calculate to the nearest Lm, how	much each friend gets.		
			Lm	
15	Work out:			(2 Marks)
13.	work out.	$2 \times (2 + 3)^2 - 5$		

END OF PAPER

(2 Marks)



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	Question Mark	1	2	3	4	5	6	7	8	9	10	11	12	Total Main	Non- Calc.	Global Mark
					D	O N	ЮТ	WF	RITF	C AB	BOV	E TH	IS L	INE	1	
Nam	e :								_						Class :	
ANS	WER AL	LQ	UES	TIO	ONS.	,										
1.	Write th	ese 1	num	bers	in f	igur	es:									
	(a) For	tu ci	v th	21100	nd	wo	hund	trad	and	four						
	(a) 101	ty SI	x un	Jusa	nu, i	.w0	nun	iicu	anu	Ioui	•					
	(b) Thi	rty t	wo r	nilli	on, o	one	hunc	lred	thirt	y tw	o the	ousan	d and	thirty tw	0.	
													_			
																(2 Marks)
2.										An e	econo	omy p	back o	of soft dri	nks cons	ists of
				• •						six c	ans.					
				•••						4 cla	asses	of 25	stud	ents each	are goin	g for
										an o	uting	5.				
			Ĺ		Ļ	Į				How to ea	/ mar ach st	ny pa tuden	cks a t?	re needec	l to give	a can
															pac	ks
															•	(4 Marks)
3.	Put thes	e fra	ctio	ns in	orc	ler,	sma	llest	first	-						· /
								3	٥		5	21				
							-	<u>-</u> 4	$\frac{1}{10}$		$\frac{3}{8}$	$\frac{21}{25}$				
								,		,	,					

(4 Marks)

4.	(a)	Joe has a plank of wood that is 330 cm long. He cuts off $\frac{2}{2}$ of it.	
		5 How long is the piece of wood he cuts off?	
		cm	
	(b)	Peter has a plank of wood that is 220 cm long. He cuts off $\frac{3}{2}$ of it	
		How long is the piece of wood he cuts off?	
		cm	
	(c)	What can you say about Joe's and Peter's planks of wood?	
		(5 M	arks)
-	Slee	estab the diagram that langt goog when she enters these LOCO commands	u ksj
3.	DD	etch the diagram that janet sees when she enters these LOGO commands.	
	FD FD)) 100	
	RT FD) 50	
	LT FD	Г 90) 50	
		F 90	
	FD	J 50 🗮	
-		(3 M	ırks)
6.	Му	y grandfather uses this formula to calculate how much bird seed he needs every day $g = 20 \times number \ of \ birds + 30$	/:
		where $g =$ amount of bird seed in grams.	
	(a)	He has 35 birds in his aviary. How many grams of bird seed does he use every day?	
	(b)	Last March he used 870 grams of bird seed every day. How many birds did he have in March?	
		birds	
-		· · · · · · · · · · · · · · · ·	arks)

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Here is the table for the **two-stage** number machine:

Input <i>x</i>	Output <i>y</i>
1	6
2	11
3	16
4	21

- (a) **Complete** the number machine by filling in the **dotted boxes** with a function.
- (b) Use the letters x and y to write down the **rule** of this number machine.

(6 Marks)



_____ (6 Marks)



The diagram shows a line graph.

- (a) Write the **co-ordinates** of A, B and C.
 - A(,) B(,) C(,)
- (b) Give the **co-ordinates** of another point on the line graph.

(,)

- (c) Which of the following graphs is shown in the figure?
 - (i) x + y = 2
 - (ii) x y = 2
 - (iii) y x = 2

_____ (6 Marks)

11. The **pie chart** below represents Daphne's daily activities.



- (a) How many hours does Daphne spend sleeping?
- (b) How many hours does she spend eating?
- (c) How many hours does she spend at **school** and doing her **homework**?



END OF PAPER