

JUNIOR LYCEUM AND SECONDARY SCHOOL ANNUAL EXAMINATIONS 2007

Educational Assessment Unit – Education Division

FORM 4	MATHEMATICS – Scheme C (Non-Calculator Paper)	TIME: 20 minutes		
Name:		Class:		

Mark

INSTRUCTIONS TO CANDIDATES

- Answer all questions. There are 20 questions to answer.
- Each question carries 1 mark.
- Calculators, protractors and other mathematical instruments except rulers are not allowed.
- You are not required to show your working. However space for working is provided if you need it.

No.	QUESTION	SPACE FOR WORKING (IF REQUIRED)
1.	What is the value of Lm19 + Lm29 + Lm39? Ans	
2.	Choose the biggest value from: (A) 5×2 (B) $5 + 2$ (C) 5^2 (D) 52. Ans	
3.	How many 25c coins make Lm2? Ans	
4.	Write 60% as a fraction in its lowest terms. Ans	
5.	Five students obtained the following marks in a French test: 48, 72, 39, 65, and 51. What is the range of man obtained by the students in this test?	
6.	A bus left Valletta at 9:30 a.m. The trip to Bugibba took 50 minutes. At what time did the bus arrive? Ans	
7.	Write down a prime number between 20 and 30. Ans	
8.	What is the value of $\sqrt{64}$? Ans	
9.	What is the order of rotational symmetry of an equilatera triangle?	

No.	QUESTION	SPACE FOR WORKING (IF REQUIRED)
10.	The turtle starts at the position shown. Sketch what the turtle draws after it is given this set of LOGO commands:	
	PD RT 90 FD 25 LT 90 FD 70	*
11.	Maria rolls a dice numbered from 1 to 6. The probability that she draws number 5 is:	
	(A) 5 (B) $\frac{5}{6}$ (C) $\frac{1}{6}$ (D) 1.	
	Ans	
12.	One complete revolution is made up of: (A) 1 right angle (B) 2 right angles	
	(C) 3 right angles (D) 4 right angles.	
	Ans	
13.	A Triangle ABC is right-angled at B. AB and BC are equal in length. What is the size of angle A?	
	B C Ans	
14.	$15 \times 37 = 555$. Write down the answer for $555 \div 37$. Ans	
15.	Change 8.5 litres to millilitres. Ans	
16.	Simplify: $5a - 2b - 3a - 5b$. Ans	

No.	QUESTION	SPACE FOR WORKING (IF REQUIRED)
17.	What is the size of angle x ? $ \begin{array}{c} 130^{\circ} \\ 80^{\circ} \\ 80^{\circ} \\ \end{array} $ Ans	
18.	Use some of the given dots to draw two vertical parallel lines.	
19.	The figure shows the net of a: (A) cuboid (B) cube (C) square pyramid (D) hexagon. Ans	
20.	Choose the correct co-ordinates for a point on the line graph of the equation $y = 3x - 5$. (A) (4, 2) (B) (4, 17) (C) (4, 7) (D) (4, -5).	
	Ans	



JUNIOR LYCEUM AND SECONDARY SCHOOL ANNUAL EXAMINATIONS 2007

Educational Assessment Unit – Education Division

FORM 4

MATHEMATICS – Scheme C

TIME: 1h 40min

(Main Paper)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total Main	Non Calc.	GLOBAL MARK

DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

INSTRUCTIONS:

Calculators are allowed. Show all necessary working. Answer all questions.

- 1. a) What is the value of the underlined digit in each of the following?
 - (i) 7<u>3</u>2 (ii) <u>3</u>256
 - b) (i) Write 877 correct to the nearest 10.
 - (ii) Write 6823 correct to the nearest 1000.

(4 marks)

2. a) Arrange in order of size. Start with the smallest.

5.7, 5.07, 3.97, 6.07.

- b) (i) Write down 15.0574 correct to 2 decimal places.
 - (ii) Write down 58.4° correct to the nearest degree.

(4 marks)

3. a) Give the value of:

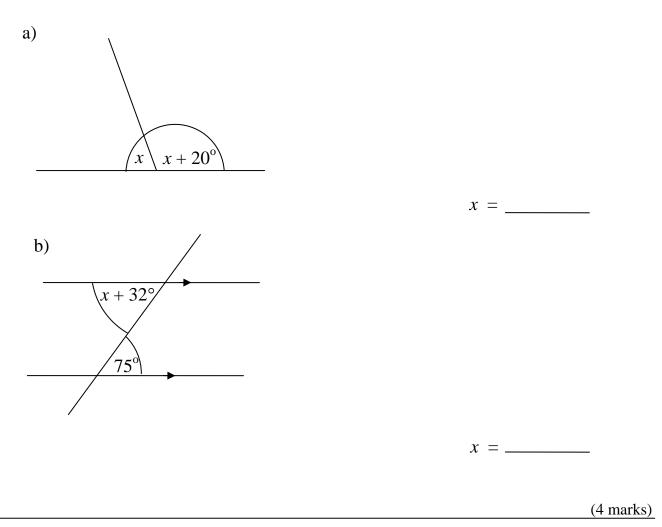
(i) 3.25×10^3 (ii) $36.8 \div 10^2$

b) Work out the value of *n* when $n \div 100 = 0.8$.

n =_____

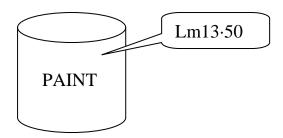
(4 marks)

4. Calculate the value of *x* in each of the following:



Name	Class

- 5. The total area of the walls in a room is 54 m^2 . A can of paint covers an area of 36 m^2 .
 - (i) How many cans of paint do I need to buy to paint the walls of the room?
 - (ii) One can of paint costs Lm13.50. How much do I pay for the cans of paint?



(4	marks)
(4	marks)

6. The temperatures at noon for a certain week were as follows:

24°C, 22°C, 24°C, 23°C, 21°C, 23°C, 24°C.

- a) What is the mode in this set of temperatures?
- b) Work out the mean temperature for that week.

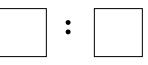
(4 marks)

7. Last Friday a total of 12 aeroplanes landed at Malta International Airport. They came from England (E), Dubai (D), Germany (G) and Italy (I). The aeroplanes arrived as follows:

a) Use the above information to complete the given table.

Country	Е	D	G	Ι
Number of aeroplanes				

b) Give your answer in its lowest terms.The aeroplanes coming from Italy and Germany are in the ratio of:



(4 marks)

8. Solve the equations: a) 2(x+3) = 27

b)
$$\frac{3x-5}{2} = 2$$

(6 marks)

- 9. Given that y = 3a + b.
 - a) Work out the value of *y* when a = 6 and b = 5.

- b) Make *b* the subject of the formula.
- c) Find the value of b when y = 25 and a = 4.

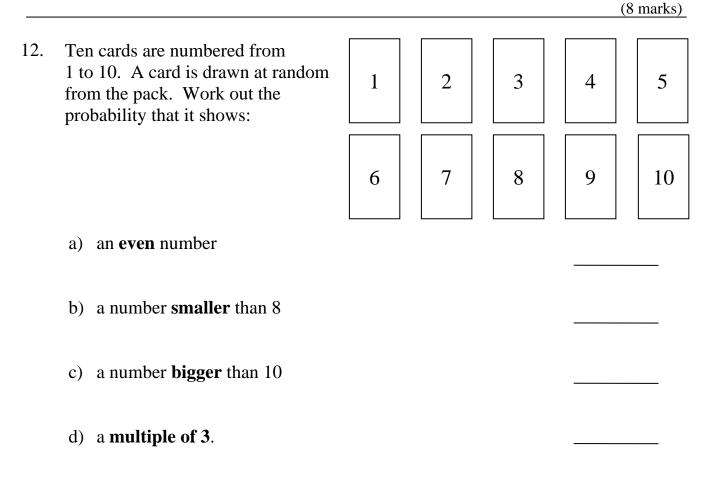
(5 marks)

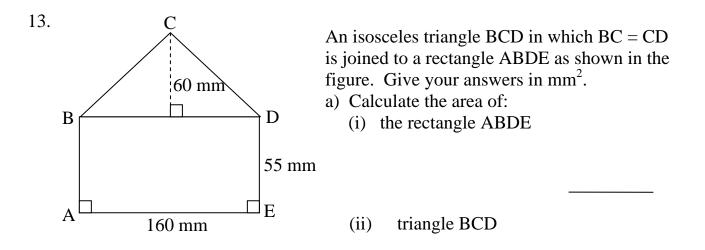
- 10. Mario reads a page of a book in 6 minutes.a) How many pages does he read in 42 minutes?
 - b) The book contains 70 pages. What fraction of the book does he read in 42 minutes? Give your answer in its simplest form.

c) How many hours does he take to read the whole book?

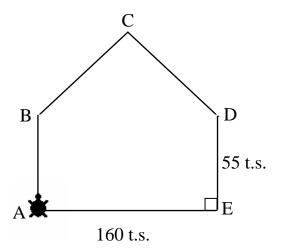
(6 marks)

- 11. a) Change 3m to cm.
 - b) Work out the value of 5% of 3 m. Give your answer in cm.
 - c) Calculate 2.5% of 3 m. Give your answer in cm.
 - d) Find the value of 12.5% of Lm3. Give your answer in cents.



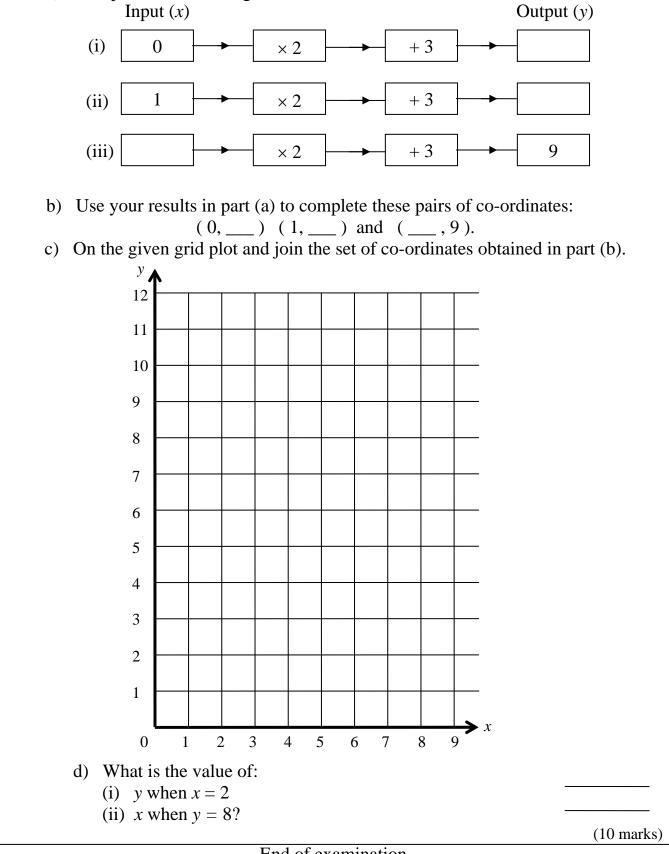


(iii) the whole figure ABCDE.



b) The turtle followed a set of LOGO commands and it travelled around the whole figure. The turtle covered a total distance of 470 turtle steps (t.s.). How many turtle steps are there from B to C?

(9 marks)



a) Complete the following function machines.

End of examination.

14.