SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Educational Assessment Unit

FORM 4 MATHEMATICS – SCHEME C (Non-Calculator Paper) TIME: 20 minutes

Mark

Name:_____

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.



Class:_____

No.	QUESTION	SPACE FOR WORKING (IF REQUIRED)	
1.	Work out €50 – €42.	Ans	
2.	Choose the smallest value from: (A) 4×3 (B) $4 + 3$ (C) 3^2 (D)	34. Ans	
3.	Change €4 to cent.	Ans	
4.	Write 50% as a fraction in its lowest terms .	Ans	
5.	Six students obtained the following marks in a test: 58, 70, 42, 65, 51 and 65. What is the this set of marks?	nn English mode in Ans	
6.	A television program started at 6:30 p.m. It fir 7:10 p.m. How long did the program last?	nished at Ans	
7.	Write down a square number between 10 and	1 30. Ans	
8.	What is the value of $\sqrt{100}$?	Ans	
9.	What is the order of symmetry of the squ	rotational are?	
		Ans	

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 LT 90 FD 50 RT 90 FD 100								
11.	Martin picks a letter at random from the word SQUARE . The probability that he picks the letter E is:								
	(A) 6 (B) $\frac{5}{6}$ (C) $\frac{1}{6}$ (D) 1.								
	Ans								
12.	An example of an acute angle is: (A) 30° (B) 90°								
	(C) 180° (D) 360° .								
	Ans								
13.	A Triangle ABC is right-angled at B. AB and BC are each 4 cm long. What is the area of triangle ABC?								
	4 cm								
	$B \xrightarrow{4 \text{ cm}} C \qquad \text{Ans} ____$								
14.	$16 \times 38 = 608.$ What is the value of $1.6 \times 3.8?$ Ans								
15.	Change 7000 millilitres to litres. Ans								
16.	Simplify $6a - 2b + 2a - b$. Ans								

No.	QUESTION	SPACE FOR WORKING (IF REQUIRED)
17.	What is the size of angle x ?	
	Ans	
18.	PQRS is a rectangle. Name one of its horizontal sides.	
	P Q Q	
19.	The figure shows the net of a cube of side 1cm. What is its surface area?	
	Ans	
20.	The straight line graph with the equation $y = 2x - 5$ cuts the y-axis at a point when $x = 0$. What is the value of y at this point?	
	Ans	

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FORM 4 MATHEMATICS SCHEME C (Main Paper) TIME: 1h 40 min

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) In the number 55555 underline the fives that have a value of 5000 and 50.
 - b) (i) Write 3257 correct to the nearest 100.

(ii) Write 536.8 correct to the nearest whole number.

(4 marks)

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

€25, €38.5, €2.5, €3.85.

b) (i) Write down €23.5678 correct to 2 decimal places.

(ii) Write down 57.30 correct to the nearest euro.

(4 marks)

3. a) Give the value of:

(i) 7.5×10^2 (ii) $538.2 \div 10^3$

b) Work out the value of y when $y \times 10 = 570$

(4 marks)

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



b)



(4 marks)

Name	Class C
5. a) Change 240m to cm.	

b) A wheel covers a distance of 120cm in one revolution. How many revolutions does the wheel make to cover a distance of 240m?

(4 marks)

- 6. Simon obtained the following marks in his examinations: 53, 56, 60, 62, 63, 78.
 - a) Calculate the range of these marks.
 - b) Work out the mean mark for his examinations.

(4 marks)

- 7. In a group of 36 children, every child owns a single pet. The table shows what pet the children own.
 - a) Fill in the blank space in the given table to show the number of children who have a dog as a pet.

Pet	Dog	Cat	Bird	Monkey
Number of children		12	9	3

b) Complete the given pie chart to represent the information in the table Label the pie chart clearly.



c) Give your answer **in its lowest terms**. Complete the statement

Children who own a dog : children who own a monkey =



d) Fill in the blank spaces with the correct name of the pets which are in the given ratio.



(9 marks)

- 8. Solve the equations:
 - a) 3x 7 = x + 23

b) 3(x+7) = 36

(6 marks)

- 9. Given that $A = \frac{(a+b)h}{2}$
 - a) Work out the value of A when a = 12, b = 6 and h = 9.

b) Make *h* the subject of the formula.

c) Find the value of h when A = 400, a = 20 and b = 60.

(6 marks)

10. a) Paul saves €5 everyday. How much does he save in 31 days?

b) How many books does Anita buy for $\bigcirc 100$ if each book costs $\bigcirc 12.50$?

(4 marks)

11. a) Change 5 hours to minutes.

b) Work out 12 % of 5 hours. Give your answer in minutes.

c) Hence or otherwise calculate 88 % of 5 hours. Give your answer in minutes.

(6 marks)



- a) ABCD is a square of side 5.6 cm.
- (i) Calculate the exact area of the square ABCD.
 - (ii) What fraction of the square ABCD is shaded?
 - (iii) Work out the area of the shaded part.

b) The turtle followed a set of LOGO commands to travel around a square in 800 turtle steps (t.s). Complete this set of LOGO commands



PD REPEAT 4 [FD _____ RT ____]

(7 marks)

- 13. A six sided dice numbered from 1 to 6 is rolled once.Work out the probability that the dice shows:
 - a) an odd number
 b) a multiple of 3.
 c) a number bigger than 5
 d) a number smaller than 10



b) On the given grid plot and join with a straight line the following points (0, 1), (2, 5) and (4, 9).



(ii) x when y = 11.

End of Examination

(10 marks)