SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008



DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Educational Assessment Unit

FOR	RM 2		MATHEMATICS – SCHEME D (NON-CALCULATOR PAPER)									TIME: 45 minutes			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAI
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- Answer all questions.
- This paper carries 40 marks.
- Calculators and protractors are not allowed.

1.	(a)	1403 = thousand hundreds tens units
	(b)	Write in figures : Five thousand six hundred and seventeen
	(c)	Write 803 in words :
2.		1000 pens 100 pens 50 pens 100 pens
		(Thany
3.	(a)	Put in order, starting from the smallest : 570, 7050, 75, 5007
	(b)	€3, €2.70, €3.05, €0.79 (4 marks)
4.		Manuel has four number cards: 2 6 8 1
		Write the largest number he makes using all the cards. (1 mark)
5.		Choose the correct answer.
	(a)	35c = €35 €3.5 €3.5 €0.35
	(b)	10c -
		(2 marks)
6.		Mark pays for a cup of tea costing 19c. He uses only FOUR coins to pay the exact amount. Which 4 coins does he use to pay exactly ?
		<u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>19c</u> (3 marks)

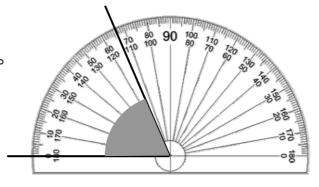
- 7. Fill in all 3 empty boxes.
 - (a) 753 + 1 =
 - (b) 753 + 20 =
 - (c) 753 = 453

(3 marks)

8.

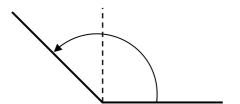
(a) This angle is **closest** to _____°

60°	70°	80°	110°
00	, 0	00	110



(b) This angle is about _____°





(2 marks)

9.

(a)
$$+$$
 72 = 90

(4 marks)

10. Tom rolls a dice.

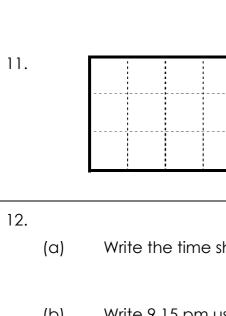
The chance of rolling a **four** is





 $\frac{1}{6}$ $\frac{4}{6}$ $\frac{3}{6}$ $\frac{6}{6}$

(2 marks)



The side of each small square is 1cm long.

- (a) The **perimeter** of the **rectangle** is _____cm.
- (b) The **area** of the **rectangle** is _____cm².

(2 marks)

(a) Write the time shown using the 12-hour clock.

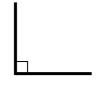


(b) Write 9.15 pm using the **24-hour** clock.

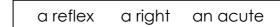


(2 marks)

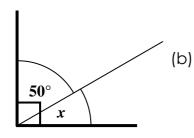
13.



(a) (i) This angle is _____ angle.



(ii) The angle = _____ °



Calculate the size of the angle marked x.

(4 marks)

14. Work out:

$$\frac{1}{6} + \frac{3}{6} =$$





(2 marks)

15.



(a) Find the cost of 10 of these balls.

€_____

(b) The cost of **one ball**, correct to the **nearest euro**, is €_____

(2 marks)

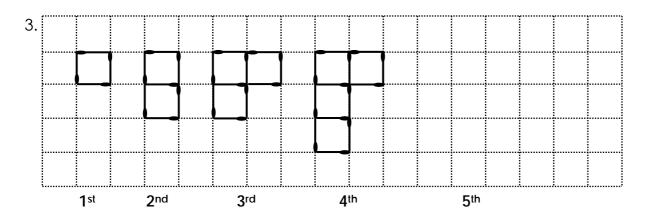
End of Paper

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008



DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Educational Assessment Unit

FORM 2 MATHEMATICS – SCHEME D (MAIN PAPER) TIME: 1h 15min											15min							
1	2	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Total Non Cal Total												Total				
DO NOT WRITE ABOVE THIS LINE																		
Name: Class:																		
Answer all questions.																		
•	Tl	nis p	apeı	r car	ries	60 n	nark	S.										
•	C	alcul	lator	s an	d pr	otra	ctor	s are	e allo	wed	but a	ll neo	cessa	ry wo	orkin	g mus	t be sl	nown.
_																		
1.	(C	1)	Mai	rk th	e tw	′o riç	ght a	ingle	es of	this s	shap	e.						
										/	7							
	(b)	Put	arro	ws t	o sh	ow 1	he r	oaral	l lel si	des c	of this	s sha	pe:	_	~		
												_					>	
											ļ							
																	(2 ma	arks)
2.					•													
			<															
Angle \boldsymbol{p} is angle.																		
									(an a	cute	an	obt	use	a re	flex		
																	(1 m	ark)



- (a) Draw the 5th diagram in the grid above.
- (b) Complete:

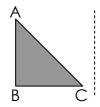
Diagram	1 st	2 nd	3 rd	4 th	5 th
Number of matches	4		10		

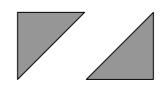
(c) The rule to make this pattern is:

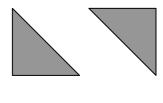
Start with 4 matches and add _____ matches every time.

(5 marks)

4. (a) Tick (\checkmark) the shape that is a **reflection** of triangle ABC in the broken line.

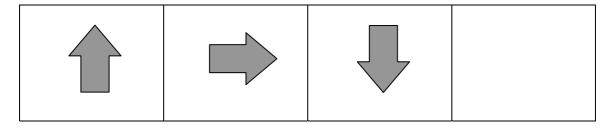






(b)

(i) Complete the sequence.



(ii) Is the sequence a translation, a reflection or a rotation? ____

(3 marks)

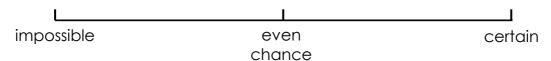
5.)				D
	$c \rightarrow$	-2		× 5		h	

Use the **number machine** to complete the table below:

С	h
4	10
6	
22	
	50

(3 marks)

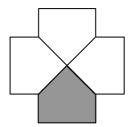
6. The figure below is a probability scale.



- (a) Tick (\checkmark) the event below, which has an **even** chance.
 - (i) A baby is born. The baby is a boy.
 - (ii) It will rain next week.
- (b) Tick (\checkmark) the event below, which is **certain**.
 - (i) All windows have curtains.
 - (ii) Apples grow on trees.

(2 marks)

7.
(a) (i) What **fraction** of the shape is shaded? _____



(ii) What **percentage** of the shape is shaded? _____

——— (4 marks)

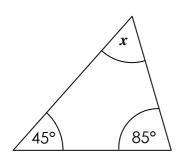
What is 10% of €2?

(b)

- 8. (a) Use a protractor to draw and mark,
 - (i) an angle of 65°.

(ii) an angle of 130°.

(b) Calculate the size of the angle marked x. (Do **not** use a protractor.)

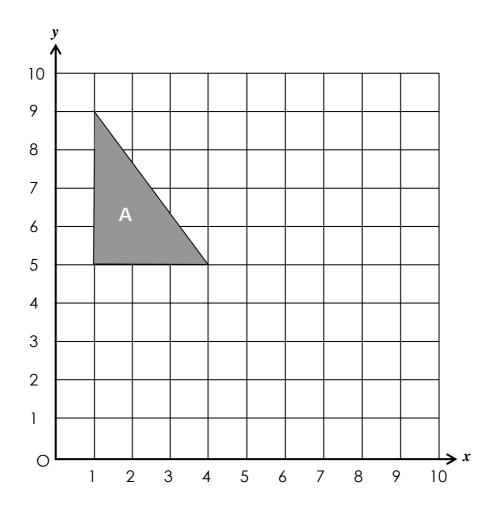


x =

(4 marks)

9.





(a) Triangle A is _____and also ____

isosceles equilate	eral scalene right-angled
--------------------	---------------------------

(b) One corner of triangle A is at point (1, 9).

Write the co-ordinates of **one** of the other corners. (,).

(c) Use a ruler to measure the 3 sides of triangle A.

Vertical side = _____cm or ____mm.

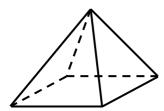
Horizontal side = _____cm.

Slanting side = ____cm.

(d) On the grid above, **translate** triangle A 5 right 4 down

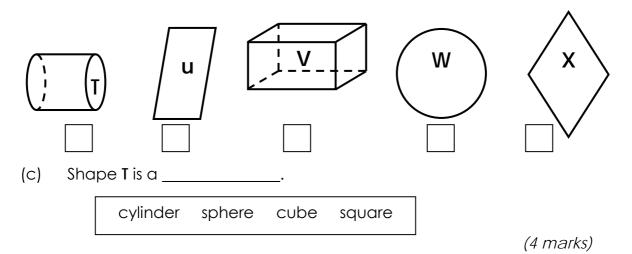
(10 marks)

10. (a)

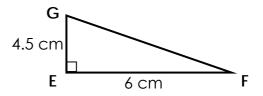


This **solid** has _____faces.

(b) Tick (\checkmark) the **solids** from the shapes shown below.



11. (a) Use ruler and protractor to draw triangle EFG accurately.



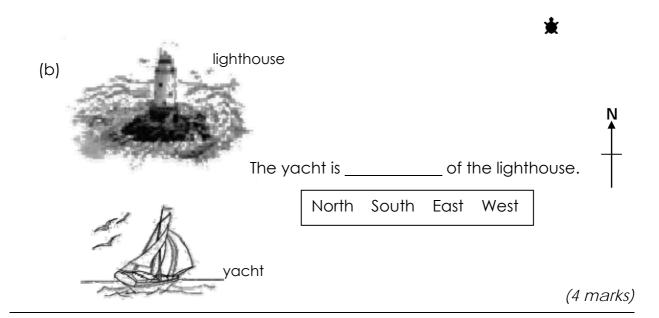
(b) Measure angle \mathbf{F} .

(4 marks)

12. (a) Mandy types the following commands using LOGO.

PD FD 100 RT 90 FD 50 LT 90 FD 50

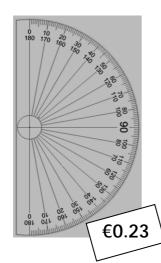
What shape will she see when she presses the ENTER key? (Start from the TURTLE.)



13. These are euro coins.



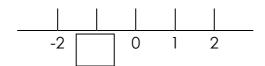
- (a) Fill in the value of the three coins, above.
- (b) George buys a protractor.



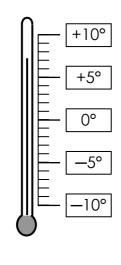
George gives the shopkeeper a 50c coin.

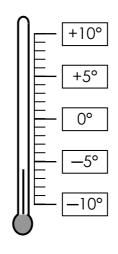
- (i) Write, in figures, the amount of change he receives.
- (ii) Draw the coins that the shopkeeper gives him.

(4 marks)



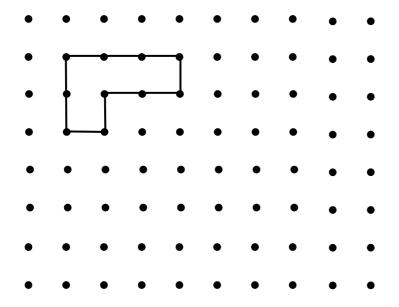
- (a) Fill in the missing number on the number line above.
- (b) Use + and numbers to write down these temperatures.





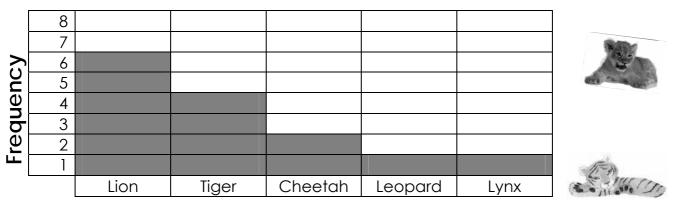
(3 marks)

15. Draw 4 more similar tiles to show that the shape tessellates.



(2 marks)

16. The bar chart below shows the number of cats born at a zoo.



Different types of Cat

(a) Fill in the frequency table, below.

Type of Cat	Lion	Tiger	Cheetah	Leopard	Lynx
Frequency	6				

- (b) How many cats were born altogether?
- (c) How many **more lions** than **tigers** were born?
- (a) Which big cats had **less** than **4** young?

(5 marks)

End of paper