### DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Department for Curriculum Management and eLearning Educational Assessment Unit



Annual Examinations for Secondary Schools 2011

FORM 3		ЛАТ	HEN No:		TIME: 30 minutes							
Name:	Non Calculator PaperClass:											
										ı	ı	
Question	1	2	3	4	5	6	7	8	9	10	Total	
Mark												

### **Instructions to Candidates**

- Answer ALL questions
- This paper carries a total of 25 marks
- Calculators and protractors are NOT ALLOWED

#### 1. Fill in the missing boxes:

kilometres	1 km	$\frac{1}{2}$ km	$\frac{1}{5}$ km
metres	1000		

kilogram	1 kg	0.6 kg	0.9 kg
gram		600 g	

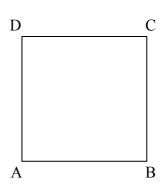
(3 marks)

2. a) ABCD is a square. Measure side AB.

Give your answer correct to 1 decimal place.

side AB = \_\_\_\_cm





Ans: \_\_\_\_\_cm

(2 marks)

3. Complete the following calculation:

$$347 \times 3 = (300 \times 3) + ( \_\_ \times 3) + ( 7 \times \_\_ ) = \_\_$$

(2 marks)



- 4. Vanessa bought these clothes from a shop.
  - a) How much did she spend in all?



Ans: €

b) What change did she get from a €100 note?

Ans: €

(2 marks)

5. a) Complete the pattern:

- b) The difference between each term is \_\_\_\_\_.
- c) The 9<sup>th</sup> term is \_\_\_\_\_.

(3 marks)

6. a) Simplify: 4a - 2 + 6a + 5

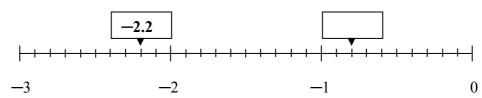
Ans:\_\_\_\_

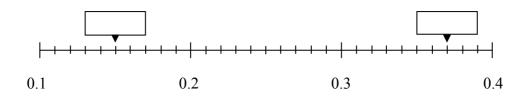
b) Solve the equation: 6p = 30.

Ans:

c) Work out the value of 4x when x = 5.

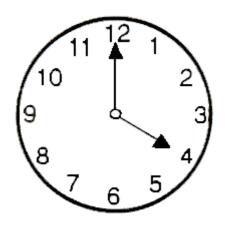
Ans:\_\_\_\_ (3 marks) 7. Write the values the arrows are pointing to.





(3 marks)

8. a) This clock shows the time early in the morning.



Everyday, Mary wakes up for school at half past seven. How much more time has she left before she gets out of bed?

Ans:\_\_\_\_

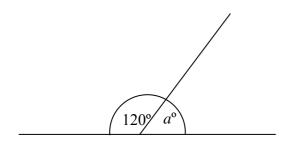
b) This digital clock shows the time in the evening. Mary has dinner 40 minutes later. At what time is dinner?

18:30

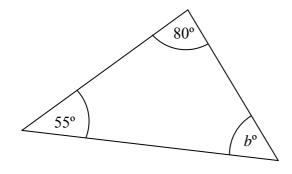
Ans:\_\_\_\_

(2 marks)

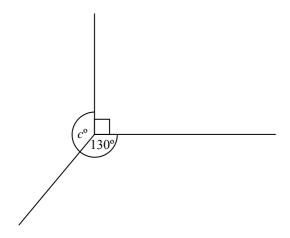
9. Work out the size of the marked angles.



a = \_\_\_\_ °



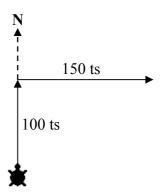
*b* = \_\_\_\_o



C = \_\_\_\_\_o

(3 marks)

- 10. A turtle walks North for 100 turtle steps, turns East and walks for another 150 turtle steps.
  - a) Mark on the diagram the angle through which the turtle turns.



b) What is this angle equal to? \_\_\_\_\_°

(2 marks)

## **End of Paper**

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**Annual Examinations for Secondary Schools 2011** 

FORM	13						N			EMA Pa		CS					TIMI	E: 1h 3	0 min
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total Main	Non Calc	Globa Mark
Mark																			
						D	O NO	OT V	VRIT	E AE	BOV	E TH	IS LI	NE				•	
Name:										_						Cla	ss:		
	CA	LCU	LATC	ORS A	ARE	ALLC				L NE				RKII	NG I	MUS	Γ BE SH	OWN.	
1.a)	) Dra	aw t	he r	next	pat	terr	1:												
pat	tern	1		ра	itter	n 2			ķ	oatt	ern	3				р	attern	4	
b)	Но	w m	iany	/ sqi	uare	s ar	e th	ere	in th	ne 5	<sup>th</sup> pa	atte	rn?						
																		Ans_ (4 i	marks)
2. Fi	II in	the	blaı	nks 1	:0 C	omp	olete	e thi	s nu	mb	er m	nach	nine						
	-	8												_					
	1	2			÷ 4	the	n +1	\ [		>				_					
													6						

(3 marks)

<ol><li>The diagram represents a room. It can be divid into square S and rectangle R.</li></ol>	ed 2 m	
a) Work out the area of <b>square</b> S.	S 4 m	
	R	3 m
Ansm²		
b) Fill in: rectangle R is 3 m wide and m	long.	
c) Work out the area of rectangle R.		
		2
d) Work out the gree of the whole room	Ans	m²
d) Work out the area of the whole room.		
	Ans(4	m² marks)
4. From the set (15, 23, 32, 36, 1010), write:		<u></u>
a) a <b>prime</b> number		
b) a <b>square</b> number		
c) a <b>multiple</b> of 8		
d) an <b>odd number</b> which is <b>not prime</b>		
e) the <b>largest</b> number <b>in words</b>		
		marks)
	(5	mainsj

Name:	
Name:	

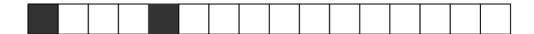


5. Put the following fractions in order, smallest first:

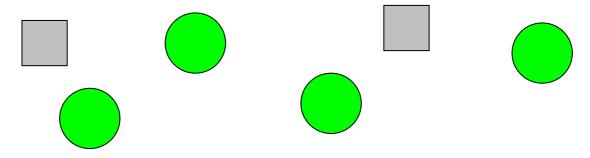
$$\frac{3}{4}$$
,  $\frac{4}{3}$ ,  $\frac{1}{3}$ ,  $\frac{11}{12}$ 

(4 marks)

6.a) The ratio black squares: white squares is 1:3. Continue the pattern.



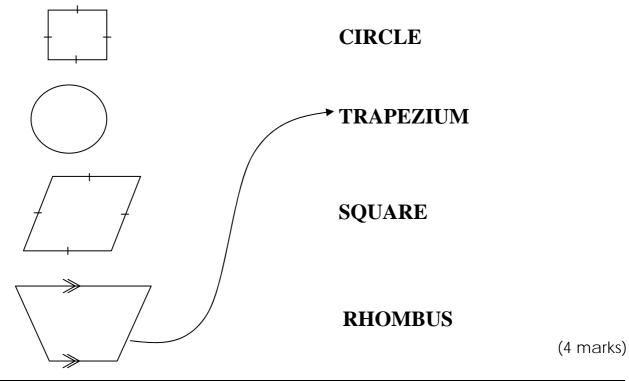
b) Fill in the ratio: squares: circles = \_\_\_\_:\_\_\_



Write the ratio in its simplest form. \_\_\_\_:\_\_\_

(4 marks)

7. Match the following shapes with the correct name:



8. Look at the <b>solid</b>	and complete the	following:	
a) It has	_faces.		
b) It has			
c) The shape of			
d) The shape of	f the other <b>three</b> fac	Les is a	 (6 marks)
0. A number of chil	ldron word asked w	shot fruit thou like	hort
9. A number of chil	ldren were asked w	mat fruit triey like	pest.
	FRUIT	FREQUENCY	
	Apple	4	
	Banana	5	
	Orange	2	
	Pear	3	
	Plum	1	
			-
a) Find the tota	I number of childre	n asked	
b) How many c	hildren chose bana	anas?	
		0	
How many C	hildren chose pear	S?	
c) Put the fruit in	n order of popularit	ry starting with the	least popular.
,		3	• •
d) Which is the	mode?		
a, willen is the		_	
			(5 marks)

- 10. The diagram shows triangle ABC.
  - a) Which is the largest angle A, B or C?



- b) Use your protractor to measure angle C.
- $\angle C = \underline{\hspace{1cm}}^{\circ}$  c) Complete :

$$\angle A + \angle B + \angle C = \underline{\qquad}$$

(5 marks)

C

11. a) Give a rough estimate for:  $108.5 \div 24.01$ 

Ans:\_\_\_\_\_

b) Use your calculator to work out the value of:  $108.5 \div 24.01$  correct to 1 decimal place.

Ans:\_\_\_\_

c) Write down the difference between your answer in (a) and that in (b).

Ans:\_\_\_

(6 marks)

12. a) Fill in:

b) How much is (i) 20% of 150 kg?

Ans:\_\_\_\_

(ii) ½ of 36.52m?

Ans:\_\_\_\_

(6 marks)

## 13. A 1 litre jug is full of water. I fill one glass. How much water is left in the jug?



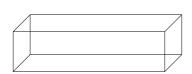


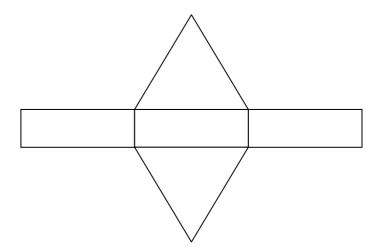
220 cc	
a) What is the total number of glasses that can be f	illed from one jug?
b) How much water is left in the jug?cm³	(3 marks)
14. Match each shape to its correct description. Each square measures 1 cm by 1cm.	
a) area 6 cm <sup>2</sup> , perimeter 10 cm	
b) area 8 cm <sup>2</sup> , perimeter 18 cm	
c) area 8 cm <sup>2</sup> , perimeter 12 cm	

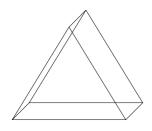
d) area  $6 \text{ cm}^2$ , perimeter 12 cm

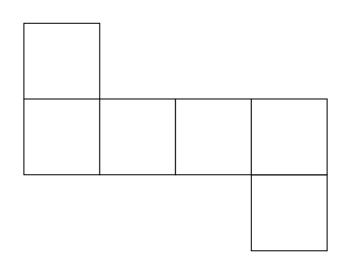
(4 marks)

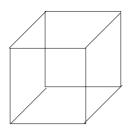
15. Match shape to its net.

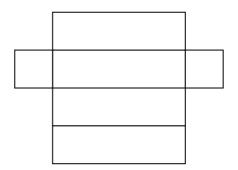








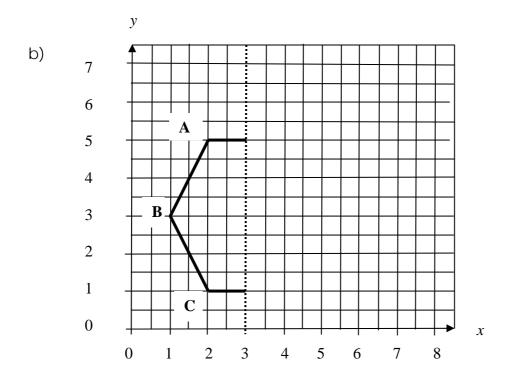




(3 marks)

16.a) A dice is thrown at random. What is the probability that

- i) it lands on a 4? \_\_\_\_\_
- ii) it lands on an odd number? \_\_\_\_\_
- iii) it lands on a number less than 5? \_\_\_\_\_



- i) Write down the **coordinates** of point **A** in the diagram above. (\_\_\_\_,\_\_\_)
- ii) Reflect the shape in the dotted line.

(9 marks)

# **End of Paper**