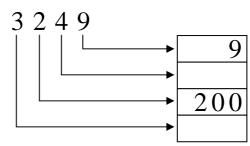
## SECONDARY SCHOOL ANNUAL EXAMINATIONS - 2008



DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Educational Assessment Unit

FORM 4		MATHEMATICS - Non-calculator Paper - Scheme D												Time: 20 min	
Question [	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Mark															
				DO	NOT	WRI	TE A	BOV	ЕТН	IS LI	NE				
Name: _												C	lass: <sub>.</sub>		
			]	INST	RUC	CTIO	NS T	Г <b>О</b> С	ANE	) IDA	TES				
<ul><li>Answ</li></ul>	er A	LL qu	estio	ns.											
• This	papei	r carr	ies a t	total o	f 20 n	narks	•								

1. Write down the values of the digits 3 and 4 as in the examples.



(2 marks)

2. Write in order of size largest first.

3.07

30.7

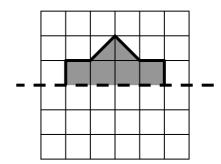
(2 marks)

3. Write in **figures**:

Sixty-two thousand four hundred and eighteen: \_\_\_

(1 mark)

4. The broken line represents the mirror line. Draw the **reflection** of the shaded shape.

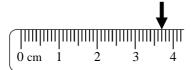


(1 mark)

5. Subtract:

(1 mark)

6. a)



b) Mark 0.9 cm on the ruler.



The arrow is pointing at \_\_\_\_\_ cm

(2 marks)

7. Draw the hour and the minute hands on the clock to show 20:25.



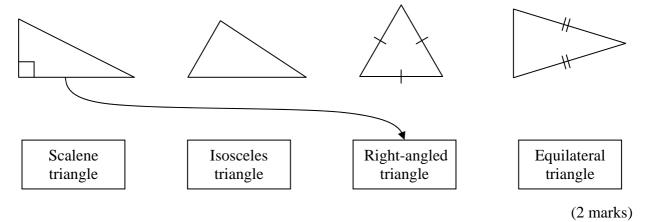
(2 marks)

8. Make **equivalent** fractions.

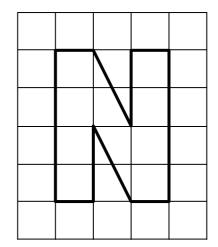
$$\frac{2}{3} = \frac{2}{21}$$

(1 mark)

9. Join each triangle to its correct name.



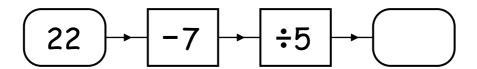
10. Each side of a square represents 1 cm. Find the area of the letter N.



\_\_\_\_\_ cm<sup>2</sup>

(1 mark)

11. Complete the function machine.



(1 mark)

	(1 mark)
13. One of these number cards is chosen at random.	
1 2 3 4 5 6	7
What is the probability of choosing a number <b>less than 5</b> ?	
	(1 mark)
14. The pie chart shows three search engines that are favourites with teep	nagers.
MSN Google	
Altavista	
a) The <b>equally popular</b> search engines are and	·
b) The <b>percentage</b> representing MSN is%.	
	(2 marks)
END OF PAPER	

12. Without using a protractor draw an angle of about 45°.

## **SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008**



## DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

**Educational Assessment Unit** 

FORM (	4		· -	MAT	HEM	ATIC	$\mathbf{S} - \mathbf{N}$	Iain P	aper -	– Sche	eme D		Time: 1	h 40m
Question	1	2	3	4	5	6	7	8	9	10	11	Total Main	Non Calculator	Global Mark
Mark														
L				D	O NO	T W	RITE	ABO	VE TI	HIS L	INE			
Name:												C	lass	
taine.												C	1488	
Answ		-												
			ies 80 mathe			trume	nts ar	e allo	wed bi	ut all 1	1ecessa	rv work	ing must be	e show
						trume	ents ar	e allo	wed bu	ut all 1	1ecessa	ry work	ing must be	e show
Calcu	ılator	s and	mathe	ematic	al inst								ing must be	e show
Calcu	ilator	s and	mathe	matica e num	al inst	in its					diagra		ing must bo	e show
Calcu I. Wri	ite ea	s and ach or	mathe f these	e num	al inst	in its	corr	ect pl					ing must be	e show
Calcu 1. Wri	ilator	s and ach or	f these is dor	e num	al inst	in its 25	corr	ect pl	ace in		diagra			e show
Calcu 1. Wri	ite ea	ach one	f these is dor	e num	al inst	in its 25	corr	ect pl	ace in		diagra			e show
Calcu 1. Wri	ite ea	ach one	f these is dor	e num	al inst	in its 25	corr	ect pl	2000 8	n the	diagra			e show
Calcu 1. Wri	ite ea	ach one	f these is dor	e num	al inst	in its 25	corr	ect pl	2000 8	n the	diagra	m.		e show
Calcu 1. Wri	ite ea	ach one	f these is dor	e num	al inst	in its 25	corr	10 r of 1	9000 8	n the	diagra	m.		e show
Calcu 1. Wri	ite ea	ach or	f these is dor	e num	al installabers you.	in its 25	corr	10 r of 1	2000 8 7	A squ	diagra 6 nare m	m.	63	e show
Calcu 1. Wri	ite ea	ach or	f these is dor	e num	al installabers you.	in its 25	corr	10 r of 1	2000 8 7	A squ	diagra 6 nare m	.m.	63	e show

- 2. Use your calculator to work out  $6.7 \times 8.3 \div 2.2$  Write your answer:
  - a) correct to **2 decimal places**:

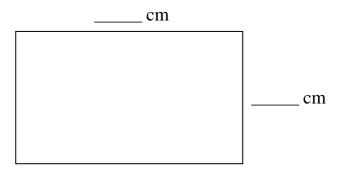
b) correct to the **nearest whole number**:

c) correct to the **nearest 10**:

\_\_\_\_\_\_(5 marks)

- 3. a) Fill in: i) 1 m =  $_{_{_{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}}}}$  cm ii) 1 cm =  $_{_{_{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}}}}$  mm

  - iii) 7·36 m = \_\_\_\_\_ cm
- iv)  $8.5 \text{ cm} = \underline{\hspace{1cm}} \text{mm}$
- b) i) Use your ruler to measure the sides of this rectangle. Write down your answers on the diagram.
  - ii) Find the area of the rectangle.

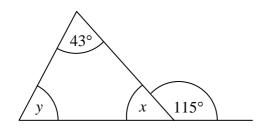


 $cm^2$ 

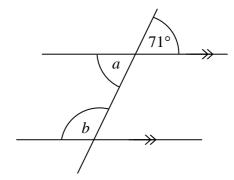
(8 marks)

4. Find the size of each angle marked with a letter.

i)



ii)



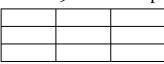
$$x =$$

(7 marks)

Class \_\_\_\_\_



5. a) **Shade**  $\frac{5}{9}$  of the shape.



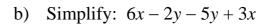
b) Simplify to its **lowest terms**:  $\frac{12}{18}$ 

- c) Work out: i)  $\frac{1}{6} + \frac{4}{6}$
- ii)  $\frac{13}{15} \frac{2}{5}$

d) Find  $\frac{2}{3}$  of 78 kg.

\_\_\_\_\_ kg (10 marks)

6. a) Find the value of:  $2^3 \times 5^2$ 



c) Expand: 3(a-9)

d) Given that p = 3 and q = 7 find the value of 3q - 4p.

e) Solve the equation: 3x + 5 = 29

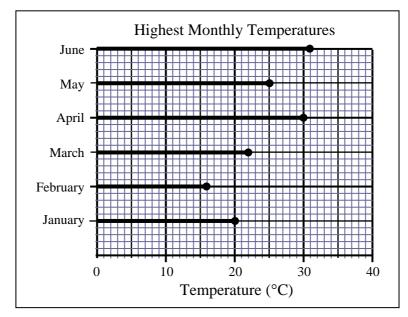
(15 marks)

- 7. Mario entered these logo commands: PD REPEAT 2 [FD 60 RT 90 FD 120 RT 90]
  - a) Start from the turtle.**Draw** Mario's shape.
  - b) Find the **perimeter** of the shape in **turtle steps**.



Ans \_\_\_\_turtle steps (4 marks)

8. The graph shows the **highest monthly temperatures** from January to June.



- a) The **range** of temperatures is \_\_\_\_\_°C.
- b) The **highest** temperature was recorded in the month of \_\_\_\_\_\_.
- c) Find the **average** highest temperature for these months.

Ans \_\_\_\_\_°C

(6 marks)

9. Margaret went on a 4-day tour to Corfu.
The table shows a record of how much she spent.

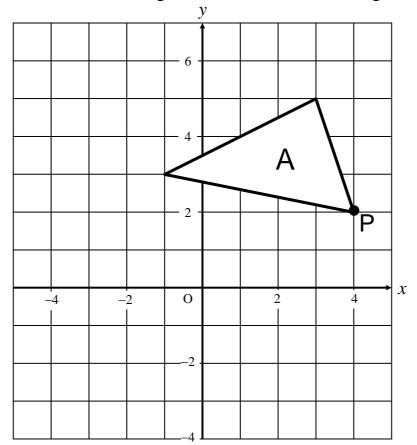
Margaret did not fill in all the table. Complete the table for her.

Cost of Tour: Flight, Hotel and Breakfast.	€420.00
Day 1: Meals, taxis, etc.	€86.80
Day 2: I spent 75% of what I spent on day 1.	
Day 3: Shopping. I spent 3 times of what I spent on day 2.	
Day 4: Meals and entrance to Fun Park.	€125.25

Total cost of holiday: €

(6 marks)

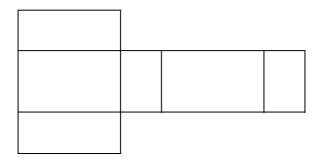
10. a) Triangle **A** is translated **3 units to the left** and **4 units down**. Draw the translation of triangle **A** and label the new triangle **B**.



b) After the translation the **image** of point P is point ( \_\_\_\_\_, \_\_\_\_).

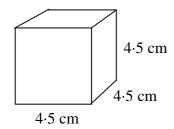
(5 marks)

11. a) Write down the name of the **solid** formed by this **net**.



Ans \_\_\_\_\_

b) Find the volume of this solid in cm<sup>3</sup>.



Ans cm<sup>3</sup>

c) Use your ruler, compasses and protractor to draw a **square of side 7.5 cm**.

(9 marks)