SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008





FORM 5	MATHEMATICS	Scheme D	TIME: 30 minutes
	PAPER 1 (Non-Ca	alculator)	
Name:		Class:	
	Mark		

INSTRUCTIONS TO CANDIDATES

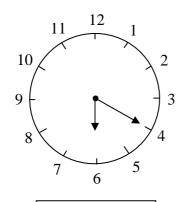
- Answer all questions.
- This paper carries 20 marks.
- Calculators and protractors are not allowed.

1. Com	nplete these cheques.	
a)	BANK OF MALTA 13, High Street, Blandun BLN1356. Date:	
	Pay Mary Borg €253	00
	euro only.	.00
	John Grima	
	00235 123456789	
1. \		
b)	BANK OF MALTA 13, High Street, Blandun BLN1356. Date:	
	Pay Joe Cassar	
	eighty-six euro and twenty-five cent <u>eighty-six euro</u> and twenty-five cent	
	only.	
	John Grima	
	00236 123456789	
		(2 marks)
2. Give	e a rough estimate for: 49 × 52	
		(1 mark)
3.	12, 13, 14, 15, 16,	17.
Use	e the numbers above and write one:	
Priı	me Number:	
Sq	uare Number:	
Oc	dd Number:	
Eve	en number:	
		(4 marks)

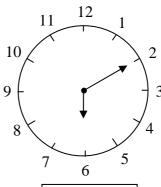
4. In a school there are 200 students.50% of them play football.How many students do this activity?

_____ (1 mark)

5. What is the time?



__:__ p.m.



__:__

(2 marks)

6. This is a function machine.



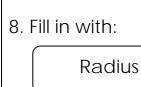
Complete: When x = 2, then y =_____.

(1 mark)

7. Simplify:

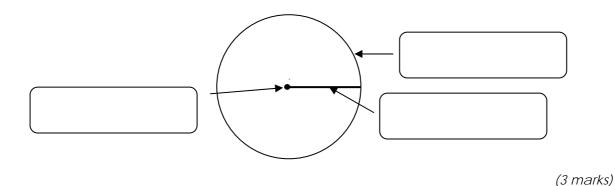
$$3(x-4)$$

(2marks)



Centre

Circumference



9.

16, 20, 4,

14,

6.

- a) The **median** of this set of numbers is _____.
- b) The **mean** of this set of numbers is

(2 marks)

- 10. Circle the correct answer.
- a) It is very hot in summer.

Unlikely Likely Certain Impossible

b) My ticket will win the International European Lottery.

Impossible Unlikely Likely Certain

(2 marks)

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008 Educational Assessment Unit – Education Division



FORM 5 MATHEMATICS Scheme D TIME: 1h 30min																	
PAPER 2 (Main Paper)																	
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Total Main	Non Calculator	Global Mark	
Mark																	
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Name	:															Class:	
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							110					AK			WED		
ANS	VE	R A	\LI	L Q	UE	EST	Oľ	NS									
1.	36	·82	2			36	8.2				368	32			3.68	36	5820
a)	The	e la	rge	est r	num	nbe	r is	_					_ ·				
b)	The	e sr	nall	est	nu	mb	er is	s —					- .				
c)	The	e nı	uml	oer						_	is w	ritte	n c	orrect	to 1 dec	imal pla	ace.
d)	Wr	ite	the	nu	mb	ers	in d	orde	er.	Beg	in w	/ith	the	large	st numbe	r.	
									_								
																	(5 marks)

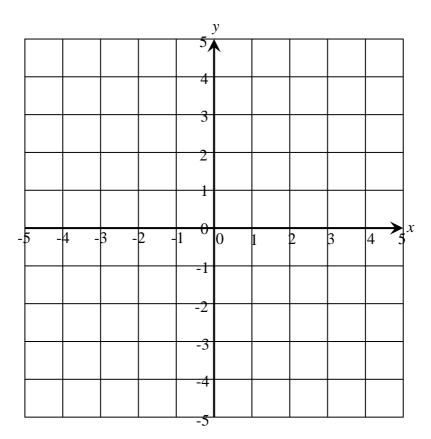
2.	without val, a jacket costs €40. 18% val is added to the pr	ce.	
	a) How much VAT is added?		
		€	
	b) Ann buys the jacket. How much does she pay?		
		€	
	c) During a sale the shop gives a 20% discount. How much will Jane save if she buys a jacket during the	sale?	
		€	
	d) How much does Jane pay for the jacket?		
		€	
			(8 marks)
3.	a) Simplify 4a + 2b - 3a + b.		
	b) Find the value of $5s + 6q$, when $s = 3$ and $q = -1$.		
	a) Final the walve of the whom Fin. 4. 14		
	c) Find the value of p , when $5p - 6 = 14$.		
			(6 marks)

4. This is the table for the graph

$$y = 2x - 1$$

х	- 2	0	2
у	- 5	– 1	3





- a) Plot the co-ordinates given in the table.

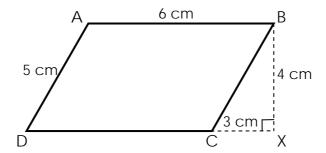
 Join them to get a straight-line graph.
- b) Does the point (-1, -3) lie on the straight-line graph?
- c) Use the graph to complete:

i) when
$$x = 1$$
, $y =$

ii) when
$$y = 5$$
, $x =$

(6 marks)

5.



ABCD is a parallelogram. BX is the perpendicular height.

a) Find the **perimeter** of the parallelogram ABCD.

b) Find the area of the parallelogram.(Area of parallelogram = base × height).

c) Find the **area** of triangle BCX. (**Area of triangle** = $\frac{1}{2}$ **base** × **height**).

d) What is the **total area** of the shape **ABXCD**?

(8 marks)

6. Sharon is using **LOGO**.

She types these commands:

PD

FD 100 LT 90 FD 50 BK 100

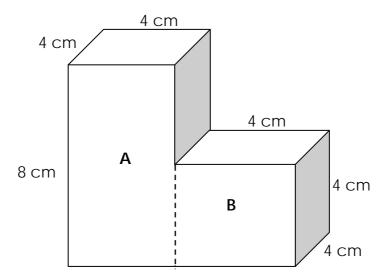
PU HOME



Draw the letter that the turtle will draw. Start from the turtle.

What is the total distance, in turtle steps, travelled by the turtle?

_____ turtle steps (4 marks) 7.



D

The figure is made up of shape A and shape B.

a) Shape A is a cuboid.

What is the volume of this cuboid?

_____cm³

b) Shape B is a **cube**.

What is the volume of this cube?

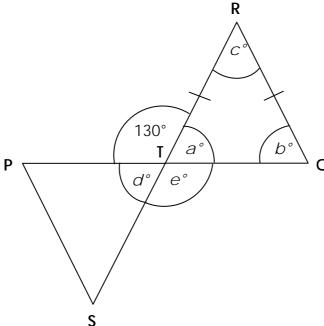
_____cm³

c) What is the total volume of the whole figure?

____cm³

(8 marks)

8.



STriangle QRT is an **isosceles** triangle.

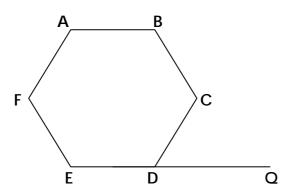
Find the value of:

$$a^{\circ} =$$
___ $b^{\circ} =$ ___ $c^{\circ} =$ ___

$$d^{\circ} = \underline{\qquad} e^{\circ} = \underline{\qquad}$$

(8 marks)

9.



ABCDEF is a regular hexagon.

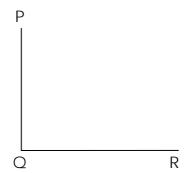
- a) What is the sum of the exterior angles of ABCDEF?
- b) Work out the size of **one** exterior angle of **ABCDEF**.

(3 marks)

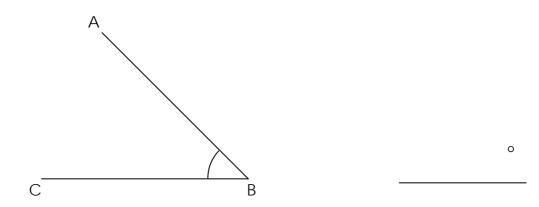
- 10. Use ruler and compasses only and:
 - a) Draw an angle of 90° at point A.



b) Bisect angle PQR.

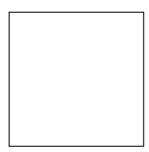


c) Use your protractor and measure angle ABC.



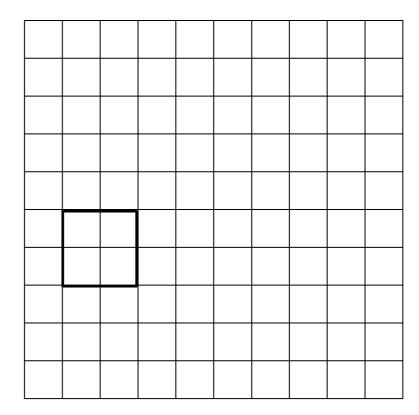
(7 marks)

11. a) Draw **all** the lines of symmetry of this square.



b) A square has rotational symmetry of order _____.

c)

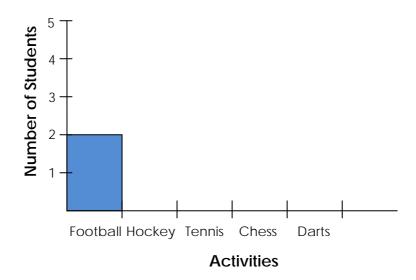


Draw an enlargement of the square using a scale factor of 2.

(8 marks)

12. Five students take part in the activities, as shown in the table:

	Peter	Annalise	Sharon	Tony	Agnes
Football	✓			✓	
Hockey			✓		
Tennis			✓	✓	✓
Chess	✓				✓
Darts		✓	✓		✓



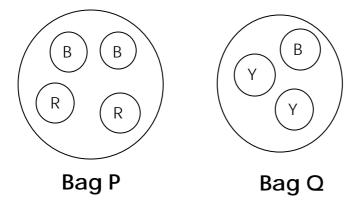
- a) Complete the bar chart.
- b) Which activity has the smallest number of students taking part?

(5 marks)

13. Francis has 2 bags:

Bag P contains 2 blue buttons and 2 red buttons and

Bag Q contains 2 yellow buttons and one blue button



B = Blue button R = Red button Y = Yellow button

Francis picks one button from each bag.

a) Complete this possibility space.

	Bag P							
Bag Q		В	В	R	R			
	Υ	(Y , B)			(Y , R)			
	Υ		(Y , B)					
	В			(B , R)				

- b) What is the probability that Francis picks two buttons that have the same colour?
- c) What is the probability that Francis picks two buttons that have a different colour?

(4 marks)

End of Paper