

**KULLEĠĠ SAN BENEDITTU**  
**Boys Secondary School, Kirkop**

**Levels**  
**6-7**

**HALF-YEARLY EXAMINATIONS – FEBRUARY 2013**

FORM 1

**MATHEMATICS** Levels 6-7

TIME: 30mins

**Non Calculator Paper**

Question	1	2	3	4	5	6	7	8	9	10	Total
Max. Mark	2	3	3	1	3	4	4	2	1	2	25
Mark											

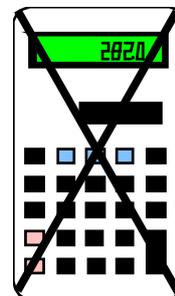
**DO NOT WRITE ABOVE THIS LINE**

NAME AND SURNAME: \_\_\_\_\_ CLASS: \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES:**

**Read all the questions carefully before you start answering.**

- Answer all questions.
- This paper carries 25 marks.
- **Calculators, protractors** and other mathematical instruments are **NOT ALLOWED**.
- On your desk you should have nothing except for **pen, pencil, ruler** and the **examination paper**.



1. Reduce  $\frac{12}{32}$  to its lowest terms.

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

(2 marks)

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2. There are 80 students in Form 1. 20% of them study Italian.  
How many students study Italian?



w

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

(3 marks)

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3. a) List the prime numbers between 10 and 20.

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

b) List the factors of 35.

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

(3 marks)

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4. a) Estimate a value for the angle below. Choose from:

$2^\circ$     $10^\circ$     $50^\circ$



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

(1 mark)

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5. These are two similar containers.

One is  $\frac{4}{7}$  full and the other is  $\frac{2}{7}$  full.

a) Can all the water be put into one container?



Ans: Yes/No \_\_\_\_\_

b) Explain: \_\_\_\_\_.

(3 marks)

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6. Evaluate:

a)  $4.12 \times 10$

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

b)  $48.2 \div 100$

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

c)  $(7.4 - 5.4) \times 100$

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

(4 marks)

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7. Look at these numbers: 3, 4, 7, 4, 8, 10, 6.

a) Calculate their mean.

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

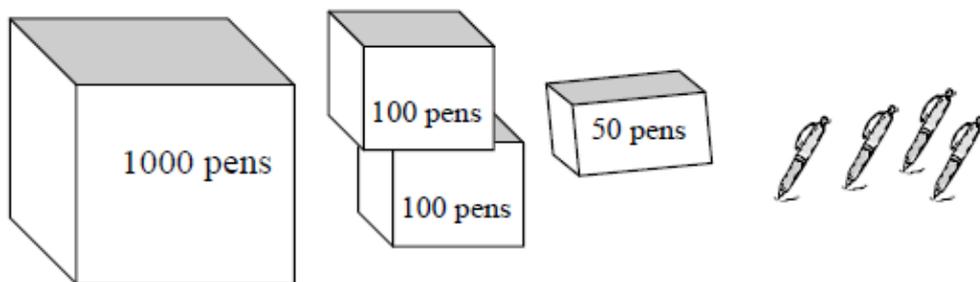
b) What is the mode?

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

(4 marks)

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8. How many pens are there altogether?

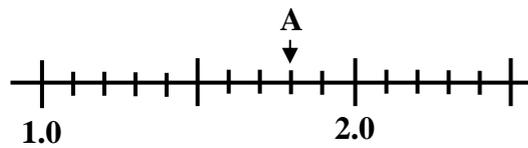


Ans: \_\_\_\_\_

(2 marks)

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9. What is the reading of A on the number line below?



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

(1 mark)

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10. Put in **order**, starting from the **smallest**:

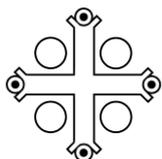
**€3, €2.70, €0.99, €3.05, €0.79.**

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

(2 marks)

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END OF NON CALCULATOR PAPER



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**6 - 7**

**HALF-YEARLY EXAMINATIONS – FEBRUARY 2013**

**FORM 1**

**MATHEMATICS** Levels 6 – 7    **TIME: 1hr 30mins**

**Main Paper**

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Main	NC	Global Mark
Max. Mark	2	6	4	8	6	6	4	5	5	9	5	5	10	75	25	100
Mark																

**DO NOT WRITE ABOVE THIS LINE**

**NAME AND SURNAME:** \_\_\_\_\_ **CLASS:** \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES:**

**Read all the questions carefully before you start answering.**

- Answer all questions.
- This paper carries 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. a) **Write in figures:**

Seven thousand three hundred and nine. \_\_\_\_\_

b) **Write in words:**

821 420 \_\_\_\_\_  
\_\_\_\_\_

(2 marks)

2.

**16, 17, 18, 19, 20, 21.**

From the list above, use each number **only once** and find:

- a) a prime number \_\_\_\_\_
- b) an even number \_\_\_\_\_
- c) an odd number \_\_\_\_\_
- d) a square number \_\_\_\_\_
- e) a multiple of 10 \_\_\_\_\_

(6 marks)

3. A bag contains 170 marbles.  
**80** of them are **green**.  
The **rest** are **yellow**.



a) What is the number of yellow marbles?

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

b) i) Write down the ratio of **green marbles: total number of marbles**.

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

ii) Simplify the ratio.

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

(4 marks)

4. a) Continue the sequences for the next two terms and write down the rule.

i) 6, 7, 8, 9, \_\_\_\_\_, \_\_\_\_\_ Rule: \_\_\_\_\_

ii) -2, -1, 0, 1, \_\_\_\_\_, \_\_\_\_\_ Rule: \_\_\_\_\_

iii) 3, 6, 9, \_\_\_\_\_, \_\_\_\_\_ Rule: \_\_\_\_\_

b) Round 74 838:

i) correct to the **nearest 10** \_\_\_\_\_,

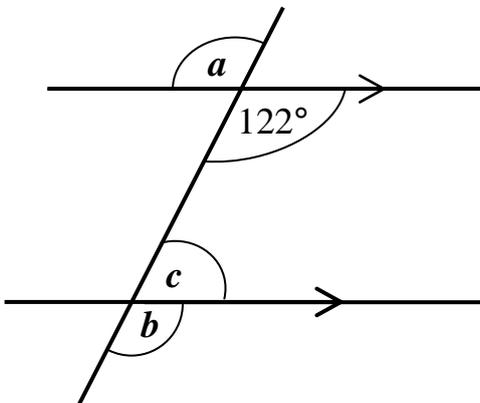
ii) correct to the **nearest 100** \_\_\_\_\_.

(8 marks)

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5. Calculate the values of the missing angles, **giving reasons for your answers.**

(Figure not to scale)



a = \_\_\_\_\_ Reason \_\_\_\_\_

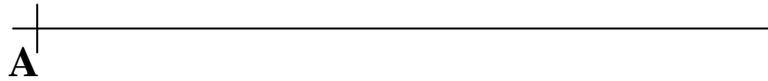
b = \_\_\_\_\_ Reason \_\_\_\_\_

c = \_\_\_\_\_ Reason \_\_\_\_\_

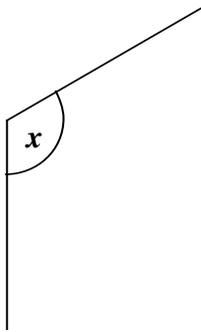
(6 marks)

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6. a) Using your protractor, draw an angle of  $55^\circ$  at A, from the horizontal line below:

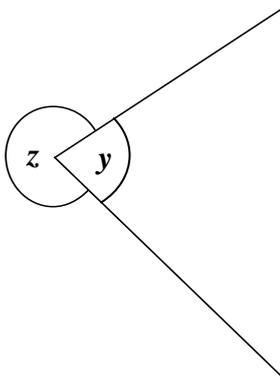


b) Measure angle  $x$  accurately, by using a protractor.



Angle  $x =$  \_\_\_\_\_

c) i) Measure angle  $y$  accurately, by using a protractor.



Angle  $y =$  \_\_\_\_\_

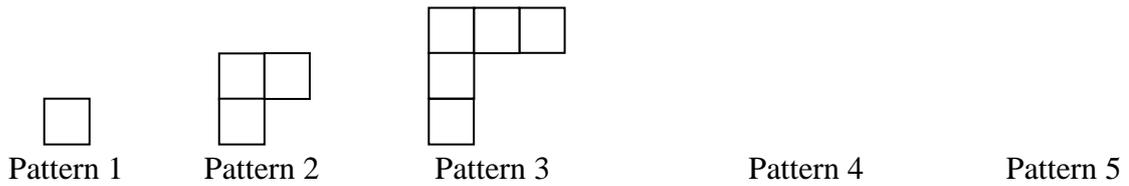
ii) Calculate the value of angle  $z$ . Give a reason for your answer.

Angle  $z =$  \_\_\_\_\_

Reason: \_\_\_\_\_

(6 marks)

7. a) Draw the next two patterns:

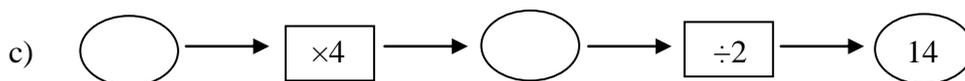
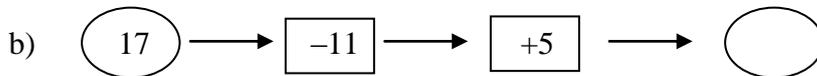
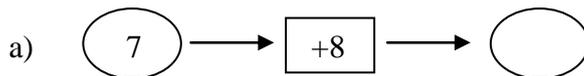


b) Complete:

Pattern	1	2	3	4	5
Number of squares	1	3	5		

(4 marks)

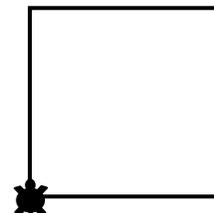
8. Fill in the missing numbers in the following **number machines**.



(5 marks)

9. The following LOGO procedure draws a square. The perimeter of the square is 400 turtle steps. Complete:

PD Repeat \_\_\_ [ FD \_\_\_ RT \_\_\_ ]



(5 marks)

10. The following list shows how students in this class go to school.

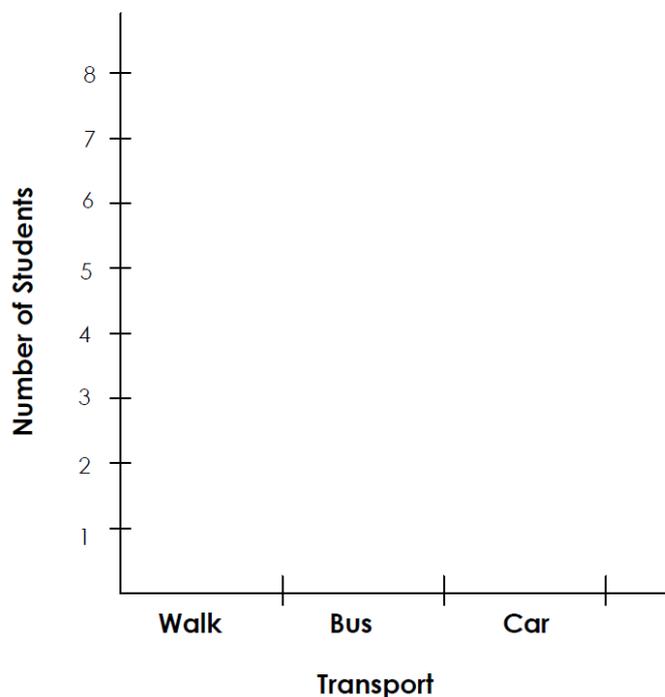
bus, walk, car, bus, bus,  
 car, walk, car, bus, bus ,  
 bus, car, walk, car, bus.



a) Fill in the frequency table to show this information.

Transport	Tally	Frequency
bus		
car		
walk		

b) Draw a bar chart to show this information.

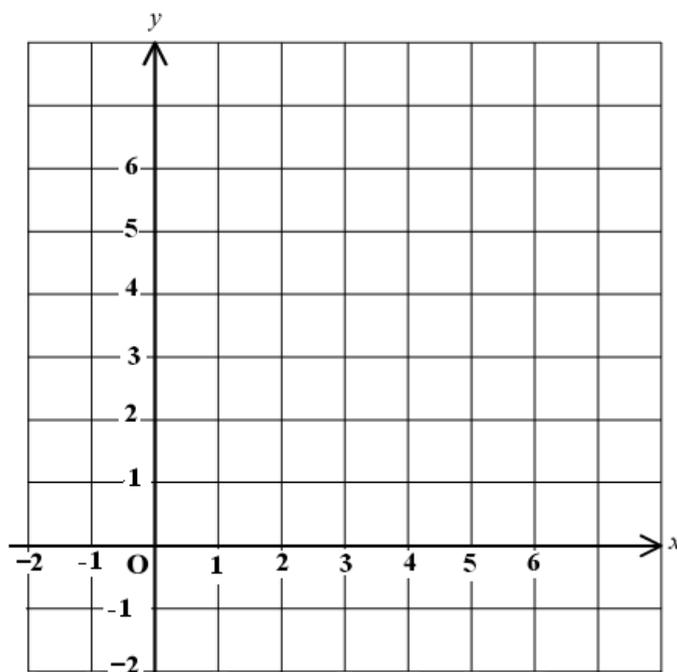


c) How many students are there altogether in class? \_\_\_\_\_

(9 marks)

11. a) Plot the following points on the grid below:

$$A = (4, 6) \quad B = (6, 3) \quad C = (2, -2)$$



b) Join the points A, B and C. What is the name of the shape formed?

\_\_\_\_\_

(5 marks)

12. What is the value of the figure of '5' in each of the following numbers?

a) 5000                      Ans: \_\_\_\_\_

b) 63.5                        Ans: \_\_\_\_\_

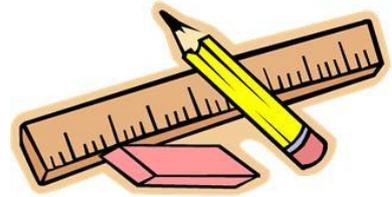
c) 530                         Ans: \_\_\_\_\_

d) 65                          Ans: \_\_\_\_\_

e) 39.05                      Ans: \_\_\_\_\_

(5 marks)

13. Jane buys some items from the stationery.



a) Complete this bill for Jane.

Items Bought	Working	Cost
3 copybooks at 45c each		
3 pens at 86 cents each		
1 ruler which costs 90c		
	<b>Total</b>	

b) If Jane pays with a €10 note, how much does she have left?

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

c) Does Jane have enough money left to buy 2 bars of chocolate which cost €1.25 each?



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

(10 marks)