

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											

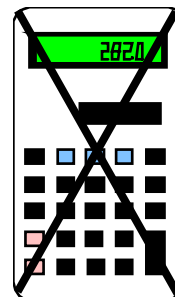
DO NOT WRITE ABOVE THIS LINE

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)

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



w

Ans: _____

(3 marks)

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

Ans: _____

- b) List the factors of 35.

Ans: _____

(3 marks)

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

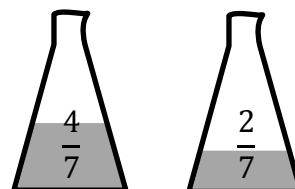
2° 10° 50°



Ans: _____

(1 mark)

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)

6. Evaluate:

a) 4.12×10

Ans: _____

b) $48.2 \div 100$

Ans: _____

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

Ans: _____

(4 marks)

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

a) Calculate their mean.

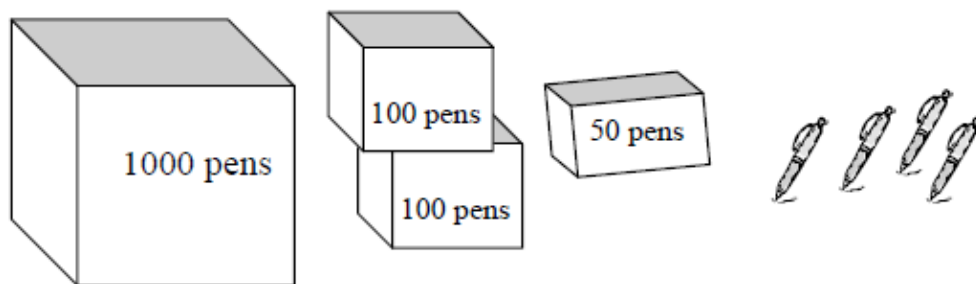
Ans: _____

b) What is the mode?

Ans: _____

(4 marks)

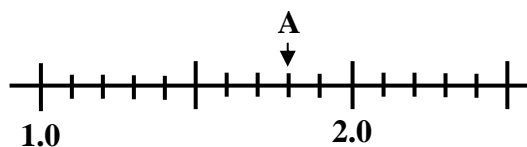
8. How many pens are there altogether?



Ans: _____

(2 marks)

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



Ans: _____

(1 mark)

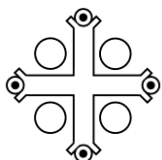
10. Put in **order**, starting from the **smallest**:

€3, €2.70, €0.99, €3.05, €0.79.

Ans: _____

(2 marks)

END OF NON CALCULATOR PAPER



KULLEĠĠ SAN BENEDITTU
Boys Secondary School, Kirkop

Levels
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:

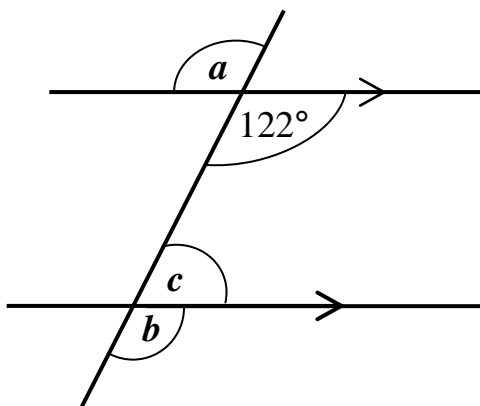
i) correct to the **nearest 10** _____,

ii) correct to the **nearest 100** _____.

(8 marks)

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

(Figure not to scale)



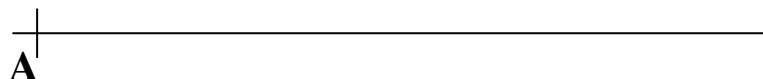
a = _____ Reason _____

b = _____ Reason _____

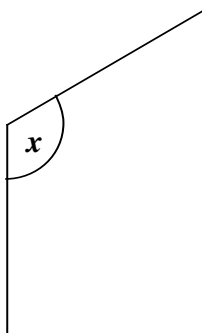
c = _____ Reason _____

(6 marks)

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

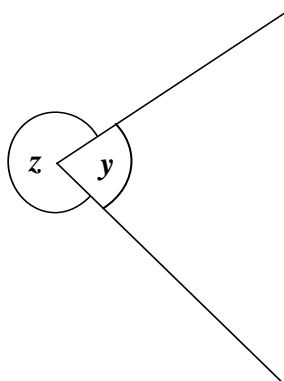


- b) Measure angle x accurately, by using a protractor.



Angle $x =$ _____

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



Angle $y =$ _____

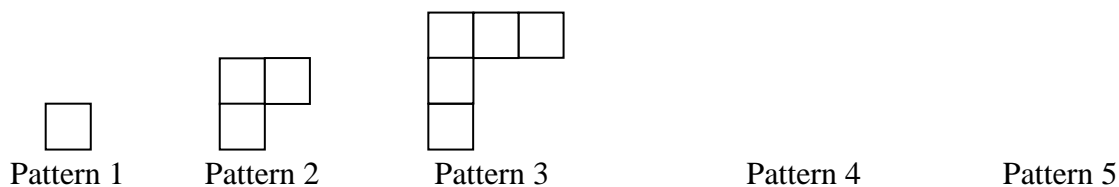
- ii) Calculate the value of angle z . Give a reason for your answer.

Angle $z =$ _____

Reason: _____

(6 marks)

7. a) Draw the next two patterns:

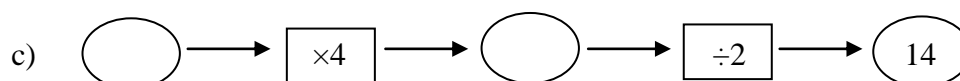
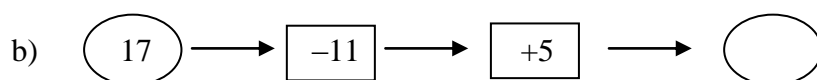
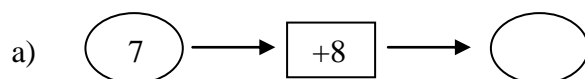


b) Complete:

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

(4 marks)

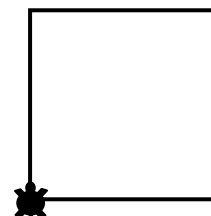
8. Fill in the missing numbers in the following **number machines**.



(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.

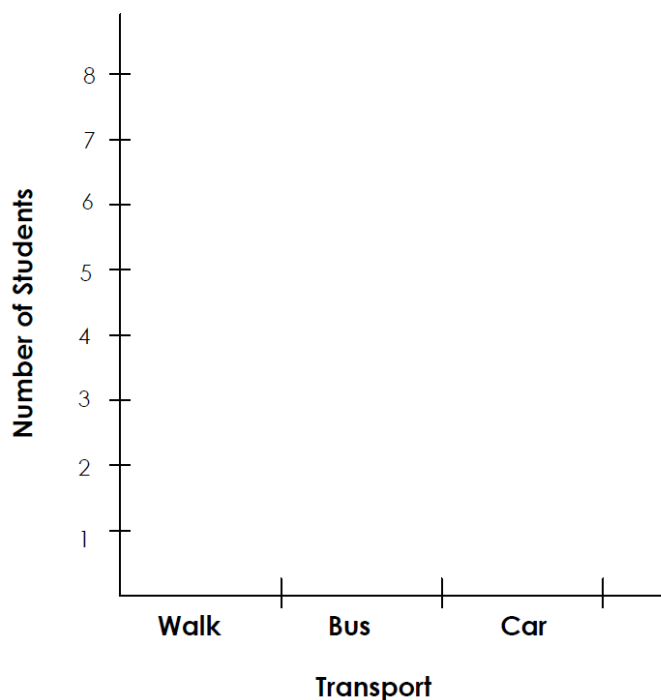
bus, walk, car, bus, bus,
car, walk, car, bus, bus ,
bus, car, walk, car, bus.



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.

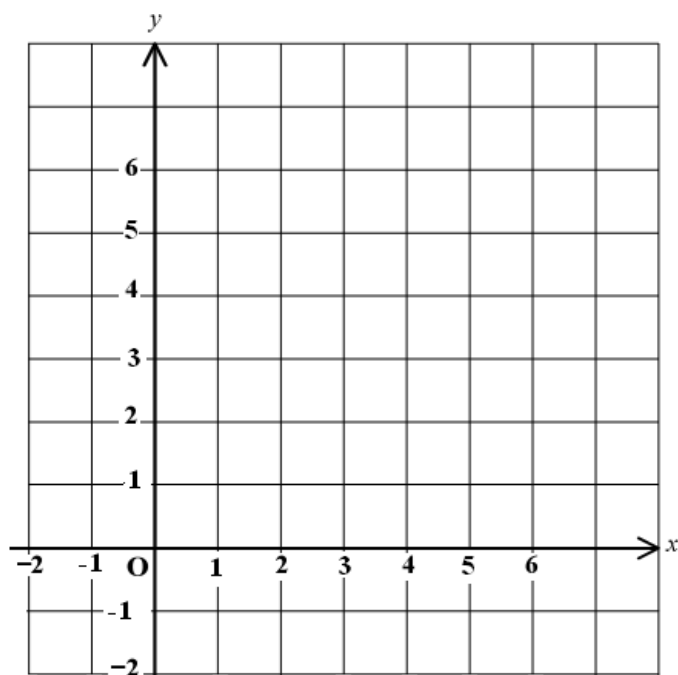


c) How many students are there altogether in class? _____

(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		
	Total	

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)