

# KULLEĠĠ SAN BENEDITTU

## Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2014/2015

Levels 5-6-7

YEAR 7

MATHEMATICS Level 5 – 6 – 7

Time: 30 mins

### *Non Calculator Paper*

Name: \_\_\_\_\_

Class: \_\_\_\_\_

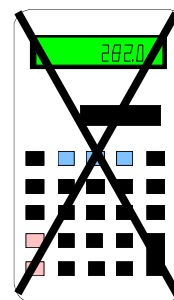
Question	1	2	3	4	5	6	7	8	9	Total
Max. Mark	2	2	2	2	3	3	6	3	2	25
Marks										

DO NOT WRITE ABOVE THIS LINE

### INSTRUCTIONS TO CANDIDATES:

Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 25 marks.
- **Calculators and protractors are NOT ALLOWED.**



1. Complete the following:-

(a) 7, 10, 13, \_\_\_\_\_, \_\_\_\_\_ .

(b) 18, 16, 14, \_\_\_\_\_, \_\_\_\_\_ .

(2 marks)

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2. Fill in:-

(a)  $\frac{1}{2} = \frac{\boxed{\phantom{00}}}{10}$

(b)  $\frac{1}{3} = \frac{\boxed{\phantom{00}}}{9}$

(2 marks)

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3. Work out:-

(a)  $6 \times 100 = \text{_____ Ans}$

(b)  $3000 \div 100 = \text{_____ Ans}$

(2 marks)

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4. Work out:-

(a)  $7.25 \times 1000 = \text{_____ Ans}$

(b)  $63.7 \div 10 = \text{_____ Ans}$

(2 marks)

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5. These are the marks obtained by 6 students in a test:-

8, 4, 4, 7, 9, 10

(a) What is the **mode**?

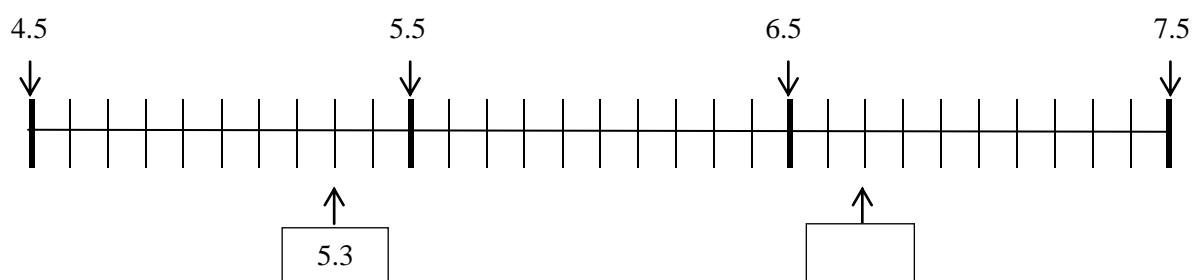
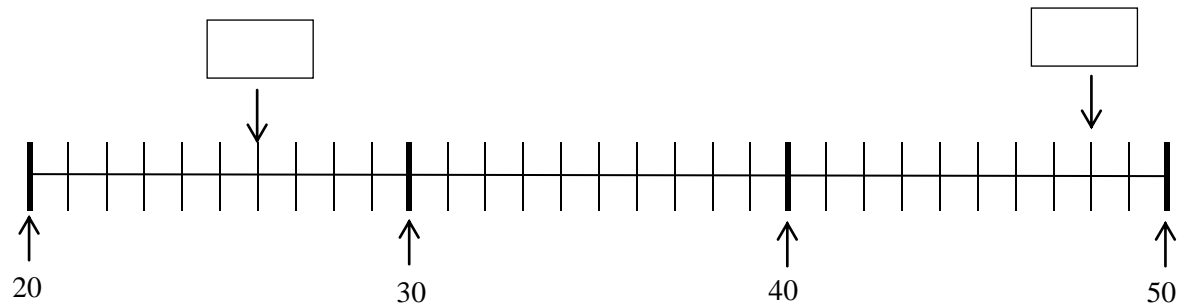
\_\_\_\_\_ Ans

(b) Work out the **mean**.

\_\_\_\_\_ Ans

(3 marks)

6. Fill in the missing numbers.



(3 marks)

7. Work out:-

(a)  $2.7 + 1.9 =$  \_\_\_\_\_ Ans

(b)  $13.8 - 2.9 =$  \_\_\_\_\_ Ans

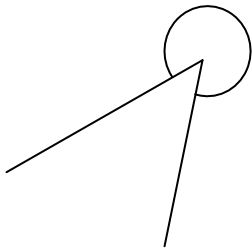
(c)  $2.3 \times 5 =$  \_\_\_\_\_ Ans

(d)  $16.4 \div 4 =$  \_\_\_\_\_ Ans

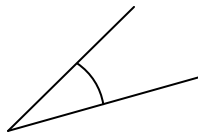
(6 marks)

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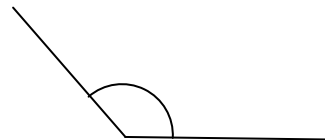
8. Write the correct name under each angle. Choose from ( **acute**, **obtuse** and **reflex** )



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

(3 marks)

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9. What is :-

(a)  $\frac{1}{2}$  of €60 = €\_\_\_\_\_ Ans

(b)  $\frac{1}{3}$  of 30 kg = \_\_\_\_\_ kg Ans

(2 marks)

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**End of Paper**



# KULLEĠĠ SAN BENEDITTU

## Secondary School, Kirkop



**HALF YEARLY EXAMINATION – 2014/2015**

**Levels 5-6-7**

**YEAR 7**

**MATHEMATICS Levels 5 – 6 – 7**

**Time: 1 hr 30 mins**

### *Main Paper*

Name: \_\_\_\_\_

Class: \_\_\_\_\_

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

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### **INSTRUCTIONS TO CANDIDATES**

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

1. Write in words:-

(a) 627 \_\_\_\_\_ Ans

(b) 4053 \_\_\_\_\_ Ans

(2 marks)

2. From the set of numbers shown:

11	12	13	14	15	16	17
----	----	----	----	----	----	----

(a) Write one **even** number \_\_\_\_\_ Ans

(b) Write one **odd** number \_\_\_\_\_ Ans

(c) Write one **square** number \_\_\_\_\_ Ans

(d) Write a **multiple of 4** \_\_\_\_\_ Ans

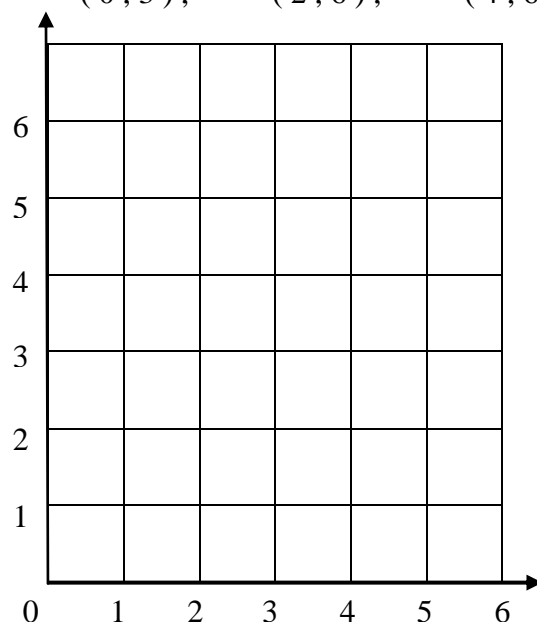
(e) Write a **factor of 12** \_\_\_\_\_ Ans

(f) Write one **prime** number \_\_\_\_\_ Ans

(6 marks)

3. Plot these points and join them in **alphabetical** order.

**A** (2, 0),      **B** (0, 3),      **C** (2, 6),      **D** (4, 6),      **E** (6, 3),      **F** (4, 0)



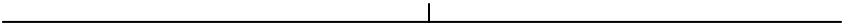
(6 marks)

4. (a) One whole revolution is  $270^\circ$  ,  $360^\circ$  ,  $180^\circ$  ,  $90^\circ$ .

(Draw a circle round the correct answer).

(b) Measure the following angles with the protractor.

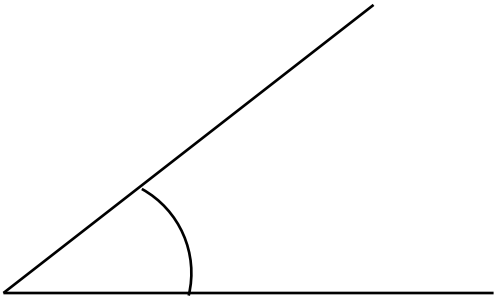
(i)



°

\_\_\_\_\_ Ans

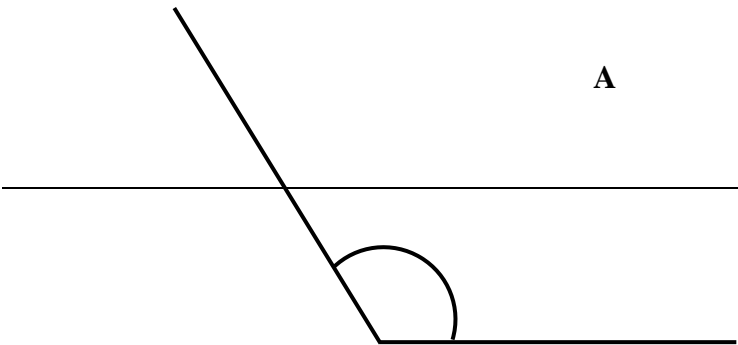
(ii)



°

\_\_\_\_\_ Ans

(c) At point A draw an angle of  $125^\circ$ .



(5 marks)

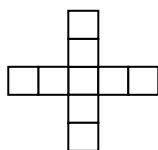
5. Peter is using some squares to make the patterns shown below:-



Pattern 1



Pattern 2



Pattern 3

Pattern 4

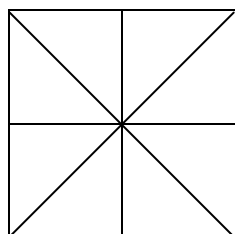
(a) Draw pattern 4.

(b) Complete the table:-

Pattern Number	1	2	3	4	5	6
Number of squares	1	5				

(5 marks)

6. (a) Shade  $\frac{1}{4}$  of the diagram:-



(c) What fraction of the diagram is **unshaded** ?

\_\_\_\_\_ Ans

(b) What is  $\frac{1}{4}$  of €8 ?

€ \_\_\_\_\_ Ans

(4 marks)

7. A class of **20 students** made a list of their favourite pizza:-

Margherita	Peperoni	Capricciosa	Peperoni	Margherita
Peperoni	Margherita	Funghi	Margherita	Funghi
Margherita	Funghi	Margherita	Capricciosa	Peperoni
Peperoni	Capricciosa	Peperoni	Margherita	Capricciosa


(a) Complete this frequency table:-



Pizza	Tally	Frequency
Margherita	++++	
Peperoni		
Funghi		
Capricciosa		

(b) Complete this pictogram:-

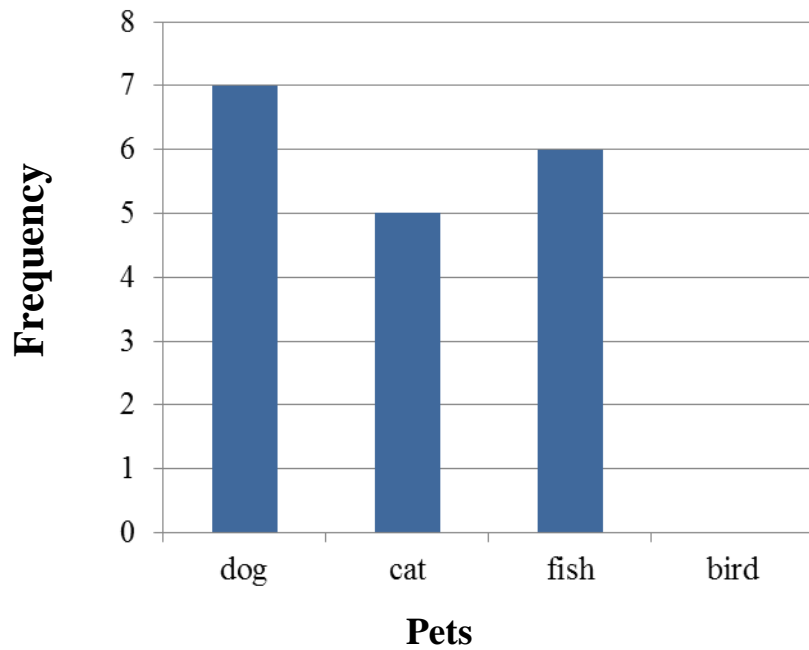
The symbol     represents two pizzas

Pizza	Symbol
Margherita	
Peperoni	
Funghi	
Capricciosa	

( 10 marks )

(10 marks)

8. This bar chart shows which pets students have.



(a) There are **three** students who have a bird. Show this on the bar chart.

(b) How many students have a **cat**?

\_\_\_\_\_ students Ans

(c) How many pets do they have in **all**?

\_\_\_\_\_ students Ans

(d) Which is the **most popular** pet?

\_\_\_\_\_ Ans

(e) There are \_\_\_\_\_ **more** dogs than cats.

(6 marks)

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9. (a) John is using LOGO. The turtle is at the starting point and all the lines are equal.

Complete John's commands to draw the diagram.

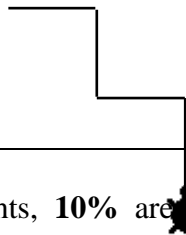


**PD FD 50 LT 90 FD 50** \_\_\_\_\_

- (b) Mary writes the following commands using LOGO.

**REPEAT 4[FD 100 RT 90]**

Draw the shape that Mary gets. Start from the turtle.



(6 marks)

10. In a school of 300 students, **10%** are absent.

- (a) What **percentage** is **not** absent?

\_\_\_\_\_ % Ans

- (b) What **number** of students are **not** absent?

\_\_\_\_\_ students Ans

- (c) What **number** of students are absent?

\_\_\_\_\_ students Ans


(4 marks)

11. **Measure** the following lines:-

(a) (i) **A** ————— **B**

Line **AB** = \_\_\_\_\_ cm

(ii)



A line segment connects point C and point D.

Line **CD** = \_\_\_\_\_ **cm**

(iii) Convert the above answers from **cm** to **mm**

Line **AB** = \_\_\_\_\_ mm

Line **CD** = \_\_\_\_\_ mm

(b) **m Ans**

Convert 150 **centimetres** to **metres**.

(6 marks)

12. (a) Work out a **rough estimate** for :-

$97 \times 51 \approx$  \_\_\_\_\_ Ans

(b) Use your **calculator** to find the **exact** value of :-

$$97 \times 51 = \underline{\hspace{2cm}} \text{ Ans}$$

(c) Give your answer to (b) correct to the **nearest 100**

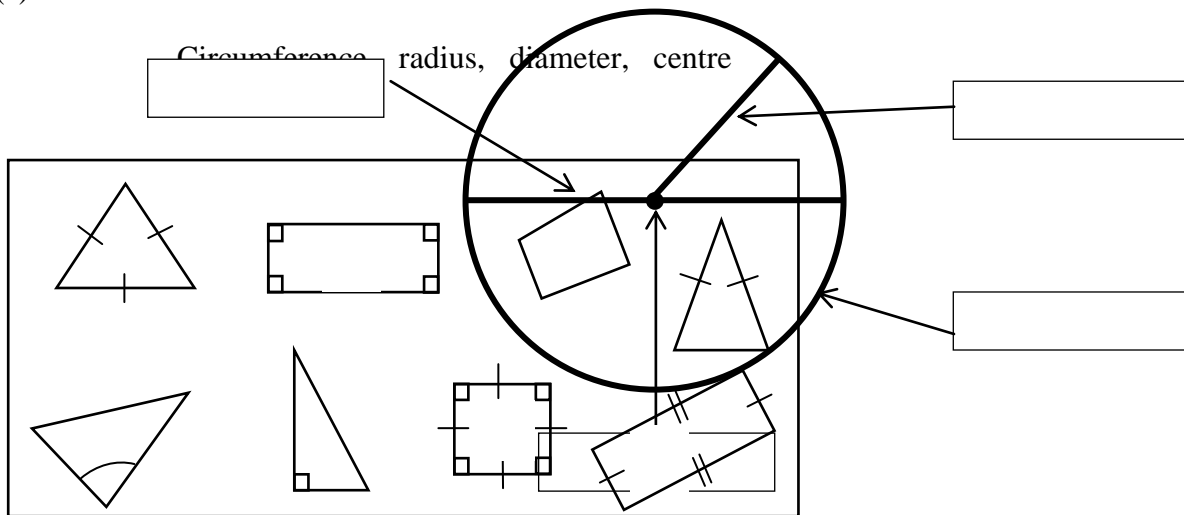
\_\_\_\_\_ Ans

(d) Give your answer to (b) correct to the **nearest 1000**

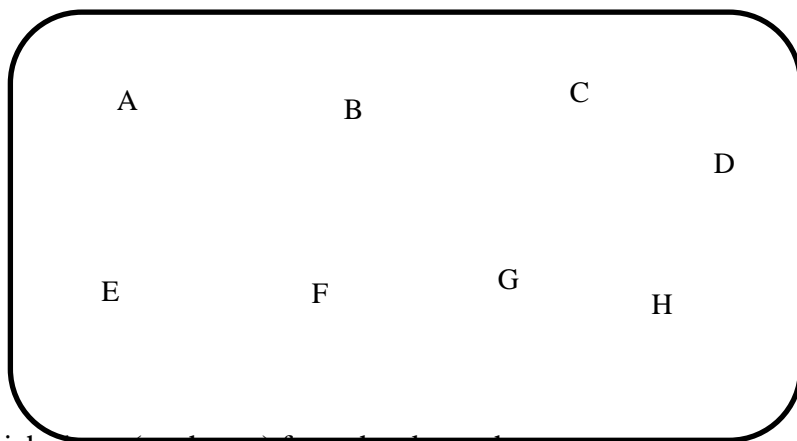
\_\_\_\_\_ Ans

(5 marks)

13. (a) Fill in with:



( b )



Which shape (or shapes) from the above shows:-

- |  |       |     |
|--|-------|-----|
| (i) A square                                     | _____ | Ans |
| (ii) A rectangle                                 | _____ | Ans |
| (iii) An equilateral triangle                    | _____ | Ans |
| (iv) An isosceles triangle                       | _____ | Ans |
| (v) A scalene triangle which is not right angled | _____ | Ans |
| (vi) A right angled triangle                     | _____ | Ans |

(10 marks)

END OF PAPER