

KULLEGG SAN BENEDITTU

Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2015/2016

Level 6 – 7

YEAR 7

MATHEMATICS Level 6 - 7

TIME: 30 mins

Non Calculator Paper

Question	1	2	3	4	5	6	Total
Max. Mark	2	6	4	6	5	2	25
Mark							

DO NOT WRITE ABOVE THIS LINE

Name: _____ Class: _____

Instructions to Candidates

- Answer all the questions.
- This paper carries a total of 25 marks.
- Calculators and protractors are not allowed.

1. Write the **next term** of each of the following sequences:

a) 3, 7, 11, 15, 19, _____.

b) 81, 72, 63, 54, 45, _____.

(2 marks)

2. a) In St. Mark's Secondary School there are 436 students. Next year the number of students will **increase** by 78. How many students will there be in all?



Ans: _____

b) The school hall has 26 rows with 19 seats in each row. Calculate the **total** number of seats by completing the table below.

×	10	9	
20			
6			
		Total	

c) How many **more seats** will need to be added to seat 500 people?

Ans: _____

(6 marks)

3. a) Guess the number.
- I am a prime number between 1 and 20.
 - I am a factor of 35.
 - I am the square root of 49.



Ans: _____

- b) Write a number that is **both** a multiple of 4 and a square number.

Ans: _____

(4 marks)

-
4. a) Write $\frac{4}{5}$ as a **decimal**.

Ans: _____

- b) Write 0.42 as a **percentage**.

Ans: _____

- c) Write 24% as a fraction in its **simplest terms**.

Ans: _____

- d) $\frac{7}{9}$ of the children in a school are right-handed.

What **fraction** of the children in the school are left-handed?



Ans: _____

(6 marks)

5. Anton buys 5 chocolate bars at €1.45 each and 7 packets of crisps at 70c each. Calculate:



- a) The **total cost** of the chocolate bars.

Ans: € _____

- b) The **total cost** of the crisps.

Ans: € _____

- c) The **change** he gets from €15.

Ans: € _____

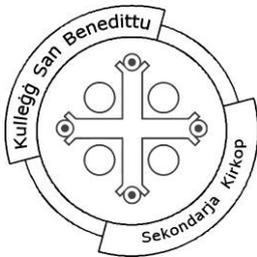
(5 marks)

6. A **15-day** holiday costs **€315**.
What is the cost of the holiday **per day**?

Ans: _____

(2 marks)

END OF NON CALCULATOR PAPER



KULLEGG SAN BENEDITTU Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2015/2016

Level 6 – 7

YEAR 7

MATHEMATICS Level 6 - 7

TIME: 1 hr 30 mins

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Main	NC	Global Mark
Max. Mark	2	5	4	3	4	7	3	2	7	8	8	12	4	6	75	25	100
Mark																	

DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

INSTRUCTIONS TO CANDIDATES:

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

1. a) The population of Malta is:

four hundred thirty thousand, one hundred and forty six.

Which of the following shows the correct number in figures?

Underline the correct answer.

430,146

43,146

403,146

b) The population of Rabat is 13,150. Write this number in words.

(2 marks)

5. Use a **ruler** and a **protractor** to draw the following angles accurately:

a) 45°

b) 115°

 Angle of 45°

 Angle of 115°

(4 marks)

6. The following are the ages of a team of footballers:

32, 31, 28, 25, 25, 26, 31, 25, 20, 25, 18.

a) Work out their **mean** age.

Ans: _____

b) Work out their **median** age.

Ans: _____

c) If another footballer, who is 26 years old, joins the team the **mode** will remain the same. State whether this statement is true or false and give a reason for your answer.

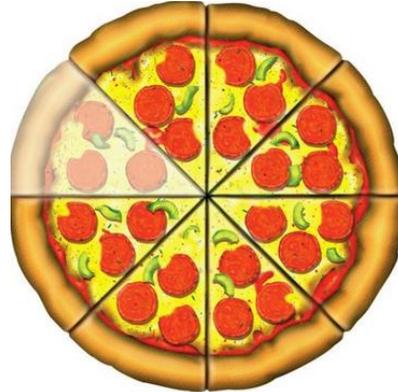
Ans: _____

(7 marks)

7. Look at the diagram below. Mark ate **one** slice of pizza.

a) **Circle** the fraction that shows the number of slices **left** on the pizza.

$\frac{8}{8}$ $\frac{7}{8}$ $\frac{1}{8}$



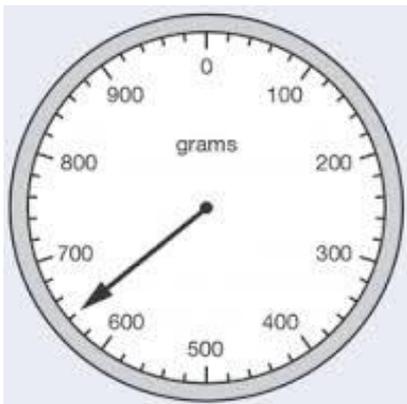
b) Express your result as a **decimal**.

Ans: _____

(3 marks)

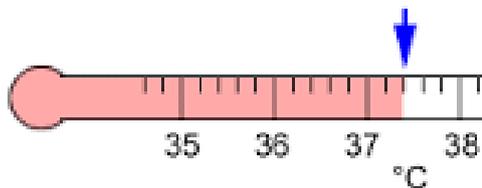
8. Read the scale marked by each of the following arrows.

a)



Ans: _____ g

b)



Ans: _____ °C

(2 marks)

9. The following are pictures of different sports balls.



a) What **fraction** of the balls are ?
Give your answer in its **simplest form**.

Ans: _____

b) What **percentage** are ?

Ans: _____

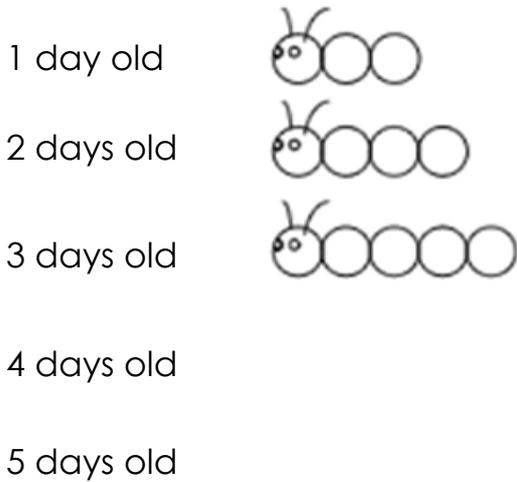
c) Work out the total fraction of the balls that are  and ?

$$\frac{\boxed{}}{\boxed{20}} + \frac{\boxed{}}{\boxed{20}} = \frac{\boxed{}}{\boxed{}}$$

(7 marks)

10. The diagrams below represent the growth patterns of a caterpillar.

a) Complete the pattern below **by drawing diagrams** to represent the caterpillar's growth when it is **4 days old** and **5 days old**.



b) **Complete** the table below representing the growth pattern:

Number of days	Number of circles
1	3
2	4
3	
4	
5	
6	

c) How does the pattern change with **every passing day**?

d) How many circles will represent the caterpillar's growth after **10 days**?

Ans: _____

e) If C represents the number of circles and Y represents the number of days, **underline** the formula which represents the growth pattern for the caterpillar:

$$C = Y \times 2$$

$$C = Y + 2$$

$$C = Y + 1$$

(8 marks)

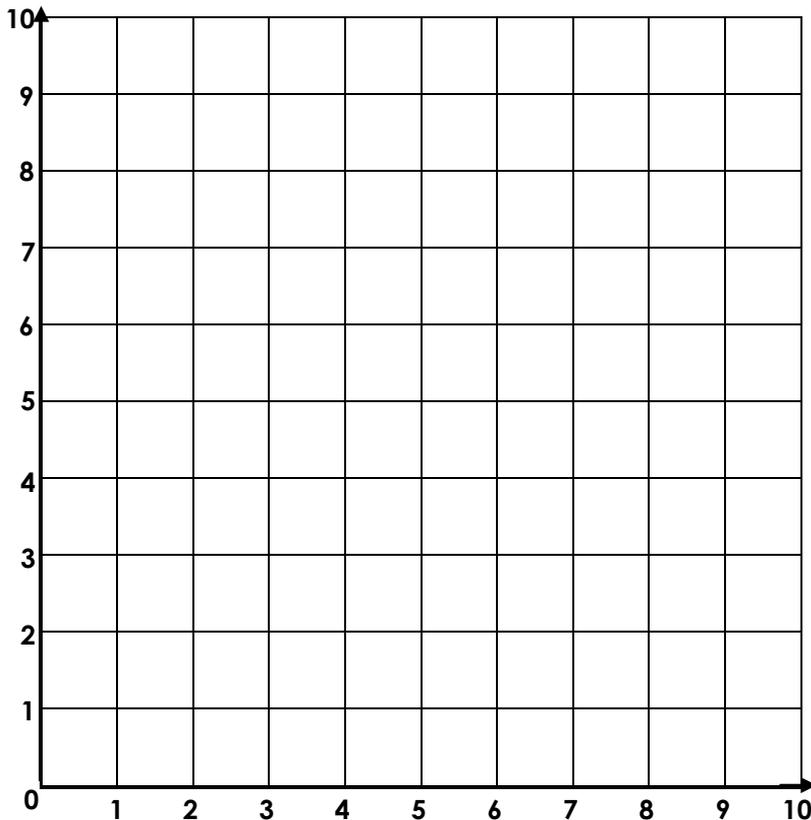
11. a) On the grid below **plot** and **label** the following points.
A(3, 0) B(3, 8) C(7, 8).

b) **Mark** and **label** point D on your grid such that ABCD is a rectangle. Join A to B, B to C, C to D and D to A.

c) Write down the coordinates of D. Ans: _____

d) Join A to C and B to D. Write down the coordinates of the point where the 2 lines meet.

Ans: _____



(8 marks)

12. The students of Year 7 in class 7B were asked which was their favourite party food. Their answers are listed below:

cupcakes	popcorn	popcorn	cupcakes	pizza
pizza	cupcakes	nuggets	pizza	sausages
cupcakes	popcorn	cupcakes	sandwiches	sausages
sausages	pizza	pizza	sausages	nuggets
pizza	pizza	sausages	nuggets	nuggets

a) Fill in the frequency table below using the above data.

Party food	Tally	Frequency
cupcakes		5
popcorn		
sandwiches		
pizza		
nuggets		
sausages		

b) Which party food is the **most** popular?

Ans: _____

c) How many **more** children prefer pizza rather than sausages?

Ans: _____

d) What is the **total** number of students in class?

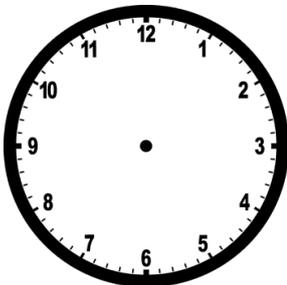
Ans: _____

e) **Draw** and **label** a bar chart on the grid below to display the party food of this group of students.

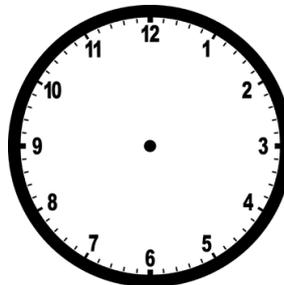
(12 marks)

13. Daniel's favourite television programme *Super Hero* starts at **quarter to four** and ends at **half past four**.

a) **Mark** these times on the clock faces provided below.



quarter to four



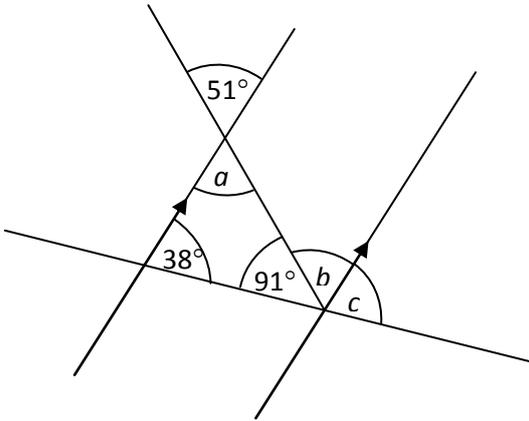
half past four

b) **How long** is Daniel's favourite television programme?

Ans: _____

(4 marks)

14. Find the size of angles **a**, **b** and **c**. Give **reasons** for each of your answers.



$\hat{a} =$ _____ reason: _____

$\hat{b} =$ _____ reason: _____

$\hat{c} =$ _____ reason: _____

(6 marks)

END OF EXAMINATION
