

KULLEĠĠ SAN BENEDITTU Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2014/2015

Levels 6 – 7

YEAR 7

MATHEMATICS Levels 6 – 7

Time: 30 mins

Non Calculator Paper

Name: _____

Class: _____

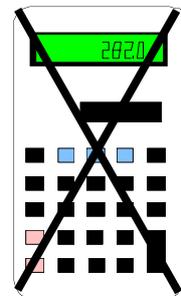
Question	1	2	3	4	5	6	7	8	NC
Max. Mark	2	4	2	2	4	2	3	6	25
Mark									

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, protractors** and other mathematical instruments are **NOT ALLOWED**.



1. Mum bakes a cake for her daughter's birthday .

Mum eats $\frac{3}{8}$ of the cake and Dad eats $\frac{1}{8}$ of the cake.

- a) What fraction do Mum and Dad eat in **all**?
Write your answer in its' simplest form.



Ans: _____

- b) What fraction of the cake is **left**?

Ans: _____

(2 marks)

2. Work out:

a) $\frac{3}{8} \times \frac{2}{9}$

Ans: _____

b) 30×50

Ans: _____

c) 3.2×4

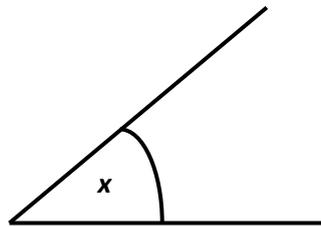
Ans: _____

d) $\frac{1}{5}$ of €65

Ans: € _____

(4 marks)

3. a) **Estimate** the value of angle x .



Ans: _____

b) Fill in:

Angle x is an _____ angle.

(2 marks)

4. Fill in the blank spaces with the missing numbers:

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

b) 3, 6, 12, 24, _____, _____

(2 marks)

5. a) Work out the following and simplify:

i) $\frac{7}{6} - \frac{4}{6}$

Ans: _____

ii) $\frac{5}{7} + \frac{2}{7}$

Ans: _____

b) Which is the greater fraction $\frac{1}{3}$ or $\frac{1}{4}$?

Ans: _____

(4 marks)

6. Peter buys 13 pencils at 27c each. Find the total cost of the pencils.



Ans: _____ cents

(2 marks)

7. Mariah picks **24 roses** and **30 daffodils** from her garden.

a) Write down the ratio of **roses : daffodils**.

Ans: _____ : _____



b) Simplify the ratio.

Ans: _____ : _____

(3 marks)

8. Fill in the blank spaces with the correct numbers:

a) The number 70 lies between the **square numbers** _____ and _____ .

b) The first five **prime numbers** are _____ , _____ , _____ , _____ , _____ .

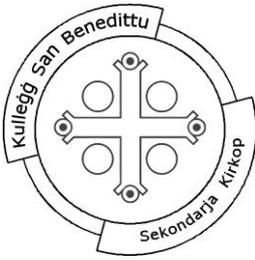
c) **Cube root** of 125 is _____ .

d) _____ is a **factor** of 20.

e) _____ is a **multiple** of 20.

(6 marks)

END OF PAPER



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Mark

HALF YEARLY EXAMINATION – 2014/2015

Levels 6 - 7

YEAR 7 **MATHEMATICS** Levels 6 – 7 **Time: 1 hr 30 mins**

Main Paper

Name: _____

Class: _____

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

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INSTRUCTIONS TO CANDIDATES:

Read all the questions carefully before you start answering.

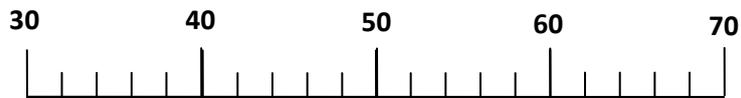
- Answer all questions.
 - This paper carries 75 marks.
 - Calculators and mathematical instruments are allowed but all necessary working must be shown.
-

1. Complete the table.

Fraction	Decimal	Percentage
$\frac{3}{4}$	0.75	75%
	0.9	
		35%

(2 marks)

2. a) Mark the values of **A**, **B** and **C** on the following number line:



A = 32 **B** = 61 **C** = 58

b) Round:

i) 234 to the nearest 10.

Ans: _____

ii) 2584 to the nearest 100.

Ans: _____

(5 marks)

3. **85%** of the teenagers taking part in a survey, believe that Cristiano Ronaldo was the most handsome footballer in the World Cup 2014.



- a) Write down the percentage as a fraction in its **lowest terms**.

Ans: _____

- b) If 500 teenagers took part in the survey, how many teenagers chose Ronaldo as the most handsome footballer.

Ans: _____ teenagers

(4 marks)

-
4. a) Mark obtained the following answer on his calculator :

38456

Write down his answer in words:

Ans: _____

b) Write down in order, starting from the **biggest**: 0.052, 0.32, 0.02, 0.5

Ans _____

(3 marks)

5. The owner of Prince the dog, needs to buy the following items from the pet shop:

- dry food at €3.20 per bag
- dog shampoo at €2.98 per bottle
- bones at 67c per bone



a) Find the total cost of a bag of dry food, a bottle of dog shampoo and 2 bones. Show all your working.

Ans: € _____

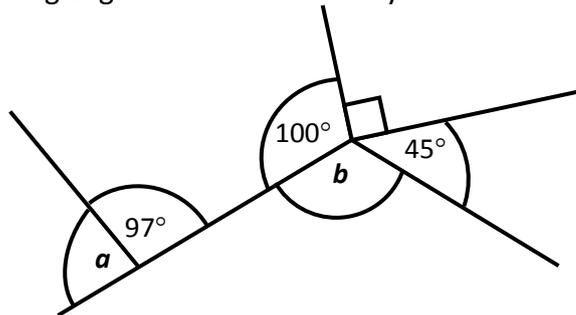
b) The owner pays with **two** €5 notes. How much change will he get?

Ans: € _____

(4 marks)

6. Work out the missing angles. Give reasons for your answers:

(a)



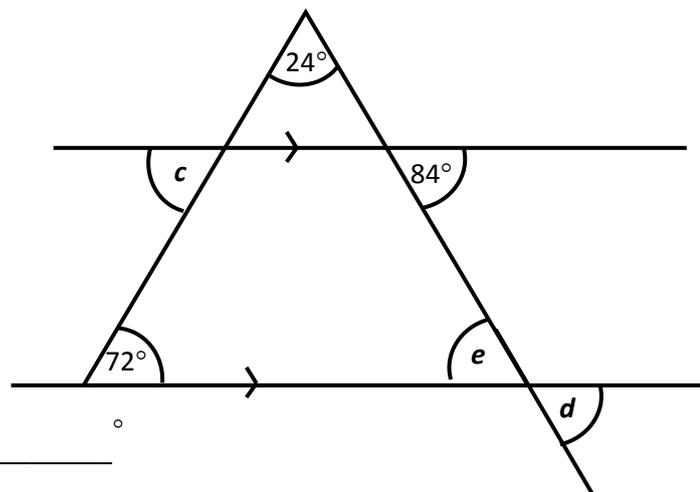
angle **a** = _____ °

reason _____

angle **b** = _____ °

reason _____

(b)



angle **c** = _____ °

reason _____

angle **d** = _____ °

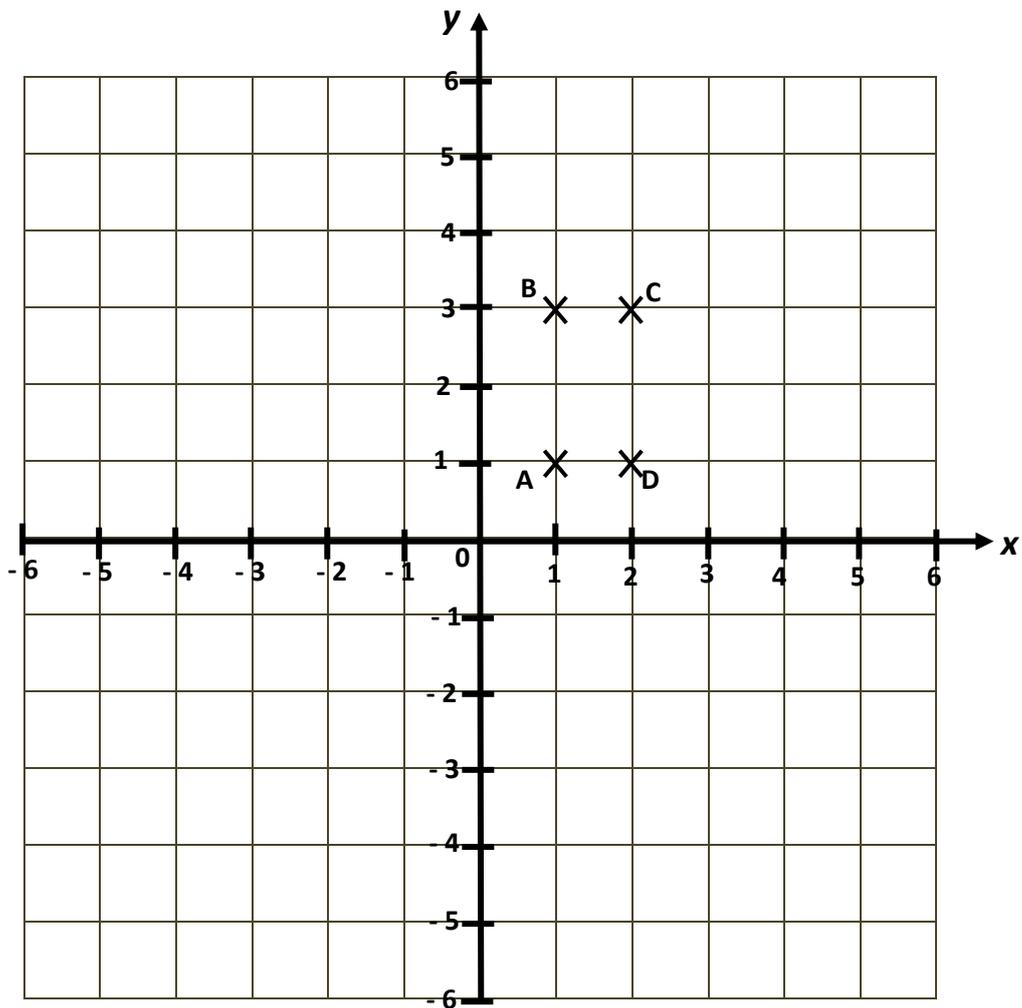
reason _____

angle **e** = _____ °

reason _____

(10 marks)

7. Use the following grid to answer the questions below.



a) Write down the co-ordinates of points A, B, C and D.

A (_____, _____) B (_____, _____) C (_____, _____) D (_____, _____)

b) Join points A to B, B to C, and C to D.

c) Plot and label these points : E(4,1) F(3, -1) G(-2,-1) and H(-3 , 1).

d) Join the points D to E, E to F, F to G, G to H and H back to A.

(10 marks)

8. A group of teenagers are asked about the shoe sizes.

The results are shown in the table below :

38	36	33	37	36	41
33	40	38	33	34	39
35	37	34	43	36	40
35	37	35	37	38	39



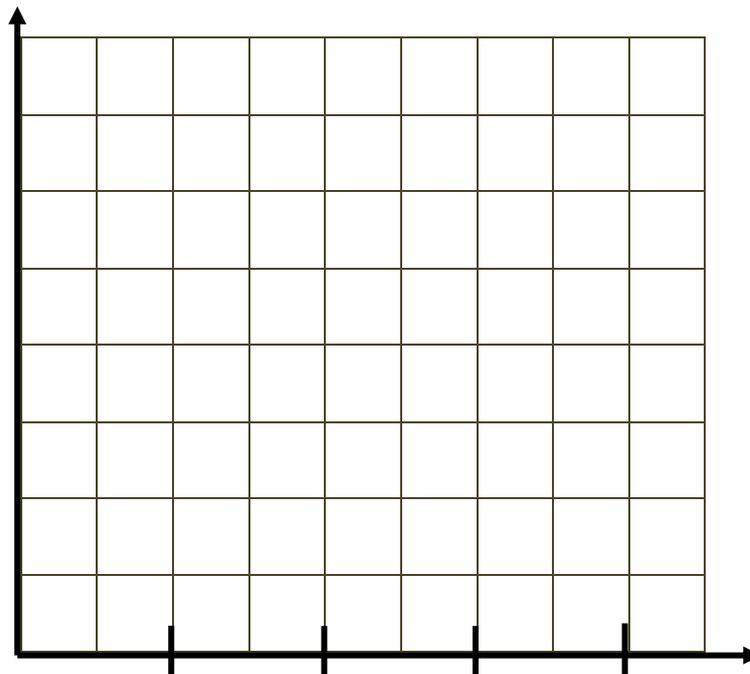
a) Complete the following frequency table :

Shoe size	33-35	36-38	39-41	42-44
Tally				
Frequency				

b) Which shoe size group is the most common?

Ans: _____

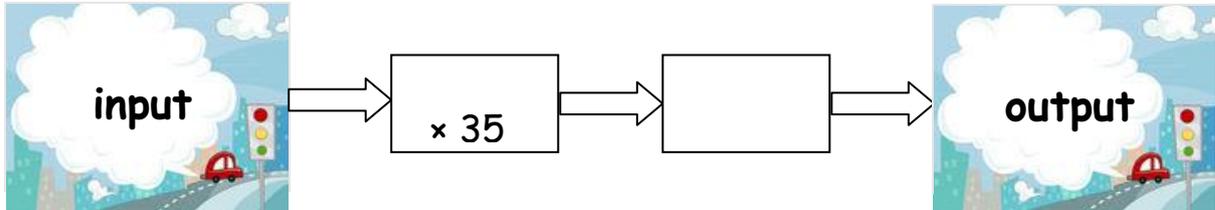
c) Draw and label a bar chart to illustrate the information in the above table.



(9 marks)

9. Mr Douglas wants to hire a car for his holiday.
The cost is a **fixed charge of €85** and **€35 per day**.

- a) He uses the following number machine to calculate the cost of hiring the car.
Fill in the empty box.



- b) How much will Mr Douglas spend if he hires the car for **7 days**?

Ans: € _____

- c) If Mr Douglas spent €260, for how many days did he hire the car?

Ans: _____ days

(6 marks)

10. Manchester United scored the following goals in the premier league:

5, 3, 2, 1, 3, 3, 3, 4

a) Work out the mean number of goals.

Ans: _____ goals

b) Find the median of their goals.

Ans: _____ goals

c) Write the mode of their goals.

Ans: _____ goals

d) Calculate the range of their goals.

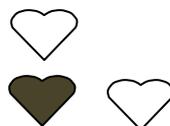
Ans: _____ goals

(7 marks)

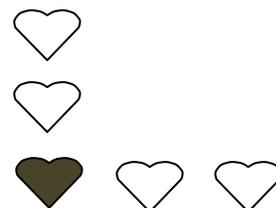
11. Victoria uses the following designs on her embroidery.



1st design



2nd design



3rd design

a) Draw the 4th design.

b) Help Victoria fill the following table :

Design Number	1	2	3	4	5	6
Number of Hearts	1	3	5			

c) What is happening to the number of hearts from one design to the next?

Ans: _____

d) How many hearts will there be in the 10th design?

Ans: _____ hearts

(6 marks)

12. Write down the value of the underlined figure in each number?

a) 9500 = _____

b) 385 = _____

c) 175 = _____

d) 135.12 = _____

e) 0.003 = _____

(5 marks)

13. David is playing the game 'WATCHDOGS' and keeps a record of his scores at different levels in the following table:



Score	Level
20	40
30	60
40	80
50	
60	

- a) What pattern can you see between the score and the level?

Ans: _____

- b) Fill in the table above with the levels for score 50 and score 60.

- c) Write down the rule which connects the **Level, L**, to the **Score, S**.

Ans: $L =$ _____

(4 marks)

END OF PAPER