

KULLEĠĠ SAN BENEDITTU
Boys Secondary School, Kirkop

Levels
7-8

HALF-YEARLY EXAMINATIONS – FEBRUARY 2012

FORM 1

MATHEMATICS

TIME: 30 mins

Non Calculator Paper

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

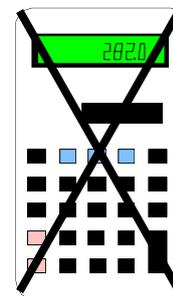
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NAME AND SURNAME: _____ **CLASS:** _____

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. From the following set of numbers:

15, 1, 6, 38, 7, 9, 35, 12

- a. Write down the **smallest even** number. _____
- b. Write down the **prime** number. _____
- c. Write the number which is a multiple of both 5 and 3. _____
- d. Write a factor of 24. _____

(4 Marks)

2. Write in figures *Seven million two hundred and one* _____

(1 Mark)

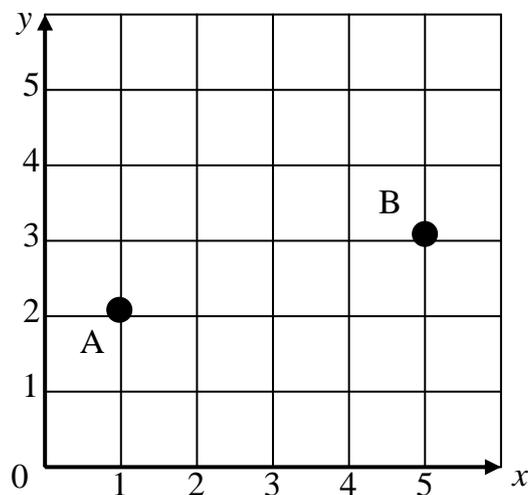
3. Give the value of the underlined digit **in words**.

a. 1 245 600 _____

b. 0.54 _____

(2 Marks)

4. Give the co-ordinates of these points.



A = _____

B = _____

(2 Marks)

5. Work out:

a. $23.62 + 7.28$

b. $89.78 - 25.61$

(4 Marks)

6. Round off:

a. 48 to the nearest ten _____

b. 6487 to the nearest thousand _____

(2 Marks)

7. Arrange the following numbers smallest first:

a. 2.3, 2.03, 3.2, 1.02

_____, _____, _____, _____

b. One thousand, 10^4 , million, 10^1 , 100.

_____, _____, _____, _____, _____.

(4 Marks)

8. Work out:

a. $157 \times 100 =$ _____

b. $33\,000 \div 10 =$ _____

c. $30 \times$ _____ $= 12\,000$

d. $500 \div$ _____ $= 10$

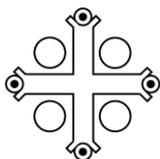
(4 Marks)

9. Underline the correct **estimate**:

a. the height of a classroom door (0.5 m 100 cm 1.9 m 4 m)

b. the weight of an apple (1 kg 200 g 0.5 tonnes 7 g)

(2 Marks)



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HALF-YEARLY EXAMINATIONS – FEBRUARY 2012

FORM 1

MATHEMATICS

TIME: 1hr 30mins

Main Paper

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

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NAME AND SURNAME: _____ **CLASS:** _____

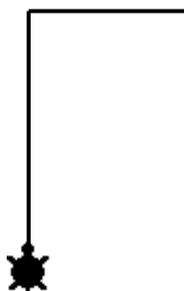
INSTRUCTIONS TO CANDIDATES:

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. Fill in the missing LOGO commands to get the shape below

PD
FD 100
RT _____
FD 50
_____ 90
_____ 100



(3 Marks)

2. Amy went to the stationary and bought 3 markers for €1.60, 2 pens at €0.75 each and a book costing €10.58.

a. How much did Amy spend at the stationary?

€ _____

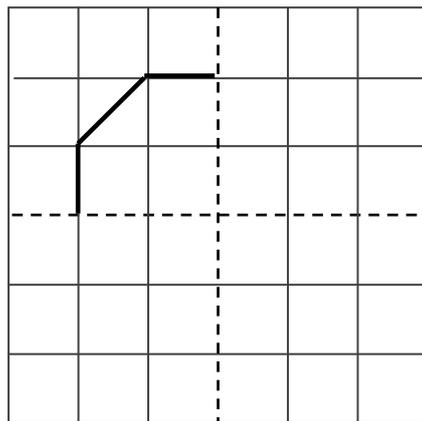
b. Amy had €20. What change did she get?

€ _____

(5 Marks)

3.

a. Complete the shape to make it symmetrical about the broken lines.



b. Draw the lines of symmetry of this shape.



(4 Marks)

4. John bought 60 rulers, 90 pencils and 120 rubbers

a. Write down the ratio of **rulers** : **pencils** : **rubbers**.

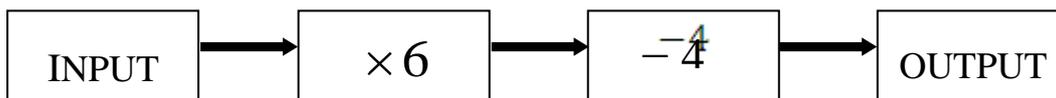
_____ : _____ : _____

b. Simplify your ratio.

_____ : _____ : _____

(3 Marks)

5.

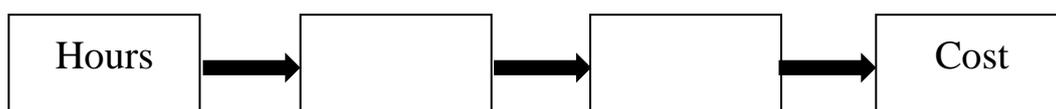


a. Find the missing **input** or **outputs** for the following table using the above number machine.

Input	Output
1	2
2	
3	14
4	
	56

b. Complete the **next** number machine by using the results from the table below.

Hours	Cost
2	11
3	16
4	21
5	26



c. Write down the **rule** for finding the cost C from the numbers of hours H .

$C =$ _____

(7 Marks)

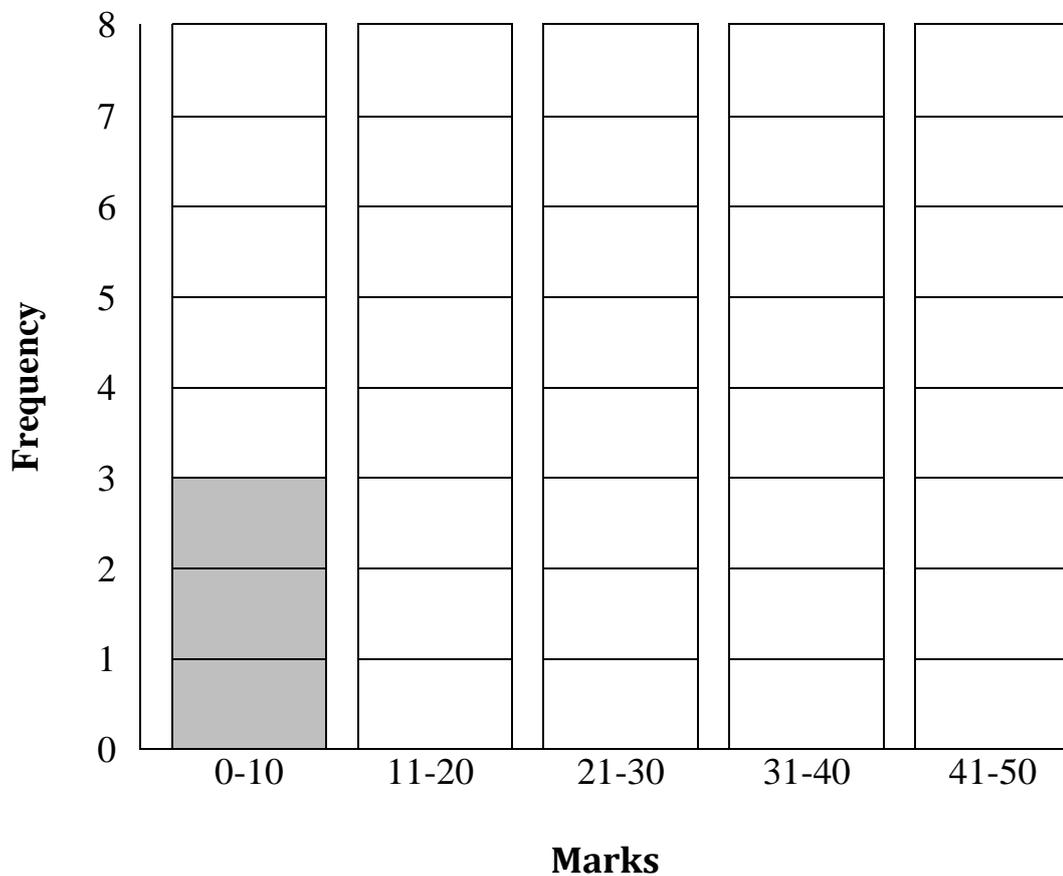
6. Ms Borg gave a History test to her class. These are the results of the students in her class. The test was out of 50 Marks.

22 36 38 32 7 33 19 41 46 27 25 37 23 29 20
 46 13 20 12 26 30 37 8 10 41

- a. Complete the following **frequency table**:

Mark	Tally	Frequency
0-10		3
11-20		
21-30		
31-40		6
41-50		
	Total	25

- b. Complete the **Bar Chart** to represent this information table:



- c. The pass mark for this test was **31**.
- i. Write the number of students who **passed** the test as a **fraction** of the **whole** class.

ii. **Simplify** your answer.

(8 Marks)

7.

- a. Write 80% as a fraction in its **lowest** terms.

- b. Find 15% of 200 m.

_____ m

- c. Orange juice is made up from 90% concentrated juice and the rest from water. What is the percentage of water?

_____ %

(5 Marks)

8. Find:

a. $5^2 =$ _____

b. $\left(\frac{3}{4}\right)^2 =$ _____

c. $\sqrt{64} =$ _____

d. $\sqrt[3]{125} =$ _____

e. $\left(\frac{1}{4}\right)^3 =$ _____

f. Write **270** as a product of its **prime** factors.

(8 Marks)

9. Find the **mean**, **mode**, **median** and **range** of the following set of numbers:

5, 10, 18, 20, 35, 5, 7, 18, 2, 16.

Mean _____

Mode _____

Median _____

Range _____

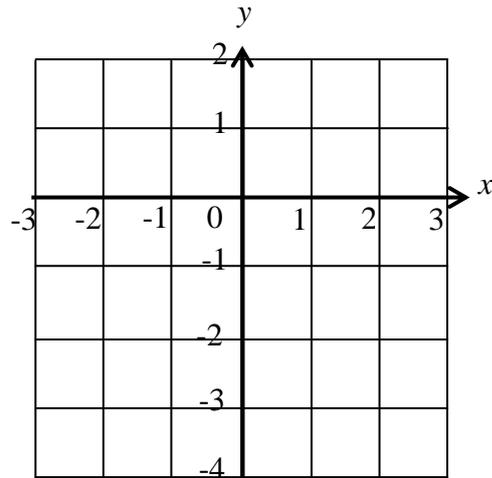
(7 Marks)

10. a. Plot the following points on the graph paper provided.

$$A = (-2, 1)$$

$$B = (1, 1)$$

$$C = (1, -3)$$



b. Find another point D so that when joined the shape is a **rectangle**.

Point $D = (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

c. Find the midpoint M of BC and give the co-ordinates of the **midpoint**.

$M = (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

d. Join BD . Measure BD and give your answer to the nearest cm.

_____ cm
(8 Marks)

11.

a. Find: $\frac{7}{12}$ of € 132

b. Work out: $\frac{3}{4} - \frac{1}{6}$

c. Share €11 among 3 children giving your answer correct to **2 decimal places**.

€ _____
(6 Marks)

12.

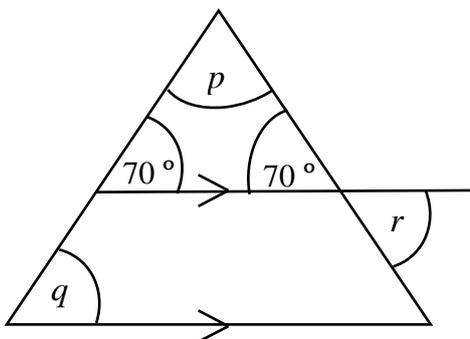
- a. i. Measure the following angle.



- ii. **Draw and label** an angle of 75° .

- b. How many degrees are there in **one complete revolution**? _____

- c. Find the value of the lettered angles giving **reasons** for your answers.



$p =$ _____ $^\circ$ Reason: _____

$q =$ _____ $^\circ$ Reason: _____

$r =$ _____ $^\circ$ Reason: _____

(11 Marks)