KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

Levels 5–7

HALF-YEARLY EXAMINATIONS – FEBRUARY 2013

FORM 1　　　　**MATHEMATICS** Levels 5-7　　　**TIME: 30mins**

Non Calculator Paper

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

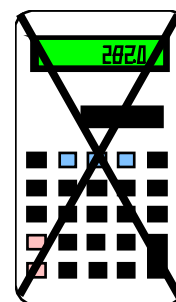**DO NOT WRITE ABOVE THIS LINE**

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. a) Write in **figures**:

   seven thousand, three hundred and six   _____

   b) Write in **words**:

   9,532   _____

2. Work out:
   a) $432 + 387 =$ _____

   b) $791 - 478 =$ _____

   c) $125 \times 7 =$ _____

   d) $16000 \div 100 =$ _____

3. Fill in:

   a) $\dfrac{1}{5} = \dfrac{\boxed{}}{20}$

   b) $\dfrac{4}{5} = \dfrac{\boxed{}}{10} = \dfrac{\boxed{}}{100} = \boxed{}\%$

4. Round the following numbers:

   a) €7.89 (to the **nearest whole number of** €) = €_____

   b) 37   (to the **nearest 10**) =   _____

   c) 823   (to the **nearest 100**) =   _____

   d) 7545 (to the **nearest 1000**) =   _____

5. Put the following numbers in order **starting with the smallest**:

324,   243,   1567,   567,   500
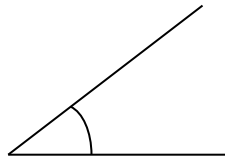
_____

(2 marks)

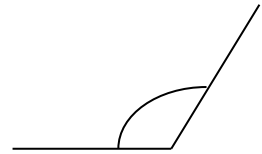6. Put the following numbers in order **starting with the largest**:

€1.05,   €2.30,   €1.50,   €3.75,   €5.00

_____

(2 marks)

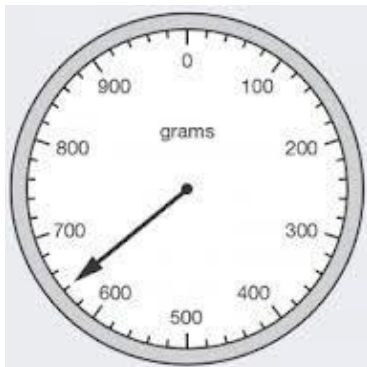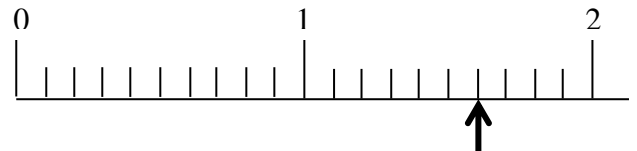7. Write the correct name under each angle. (Choose from **acute**, **obtuse** and **reflex**).

_____   _____   _____
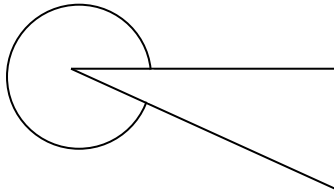
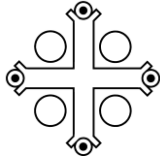(2 marks)

8. To what number is the arrow pointing to?

a)

b)

0   1   2

_____

_____

(4 marks)

FORM 1   **MATHEMATICS Levels 5-7**   TIME: 1hr

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	Main	NC	Global Mark
Max. Mark	7	6	10	6	8	7	5	10	3	7	6	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) Give the **value** of the underlined digit.

    47.**6**3   =   _____

    b) Work out:

      i) 0.4×10 =   _____

      ii) $400 \div 1000$ =   _____

c) Sarah bought a tin of beans costing 42 c

and 2 packets of biscuits at 90 c each.

i) How much money did Sarah spend altogether?

ii) What change did she receive from €5?

(7 marks)

2. Look at the following sweets.
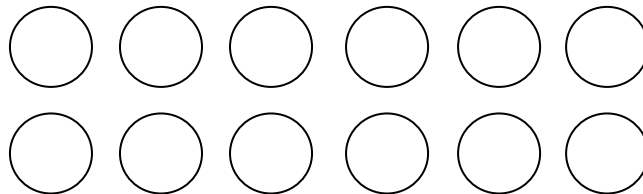
a) i) Shade $\frac{1}{2}$ of the sweets as ⬤ .

ii) What percentage is this?   _____%

b) Shade $\frac{1}{3}$ of the sweets as ◓ .

c) What **fraction** of the sweets is **NOT** shaded?

(6 marks)

3. a) Continue these sequences:

   i) 65, 55, 45, 35, _____, _____.

   ii) 6, 12, 18, 24, _____, _____.

   b) Look at the following pattern.
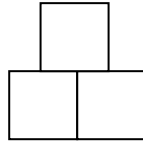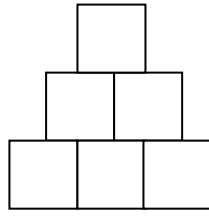
Diagram 1   Diagram 2   Diagram 3   _____
                                                          Diagram 4

   i) Draw the **next diagram**.

   ii) Fill in the table:

Diagram Number	1	2	3	4	5	7
Number of squares	1	3	6	10		

(10 marks)

4. a) i) Draw a circle of radius 4 cm.

        ii) Its diameter is _____ cm long.

4. b) **Match** the shapes with their name.

(p)

(q)

(r)

(s)
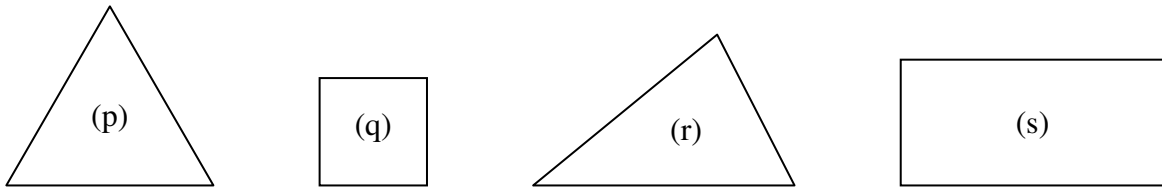
p
q
r
s

rectangle
equilateral triangle
square
Scalene

(6 marks)

5.
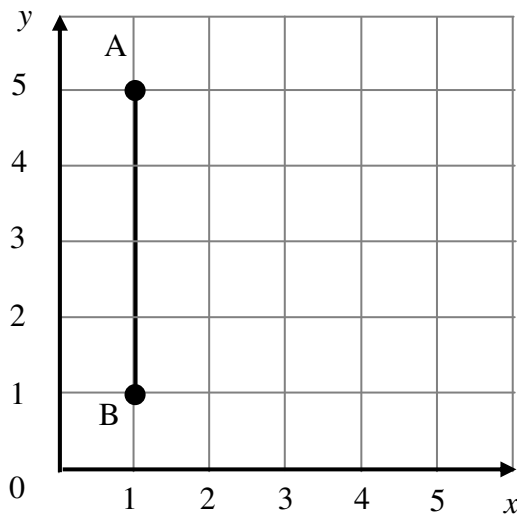
a)   What are the coordinates of A and B?

A(_____,_____)   **B**(_____,_____)

b)   Plot the points C(4, 1), D(4, 2), E(2, 2) and F(2, 5).

c)   Join the points in order from A to F and back to A.

(8 marks)

6. Fill in:

   a)

   | 2 | × 3 | 6 | + 1 | _____ Answer |

   | 7 | × 3 | _____ | + 1 | _____ Answer |
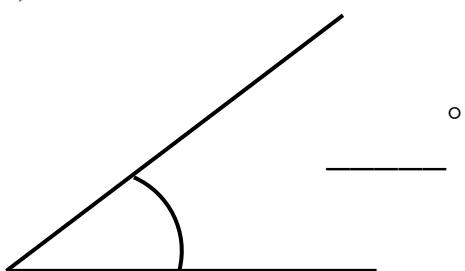
   b)

   | 0.22 | × 10 | _____ | − 1 | _____ Answer |

   | 5 | × 10 | _____ | − 1 | _____ Answer |
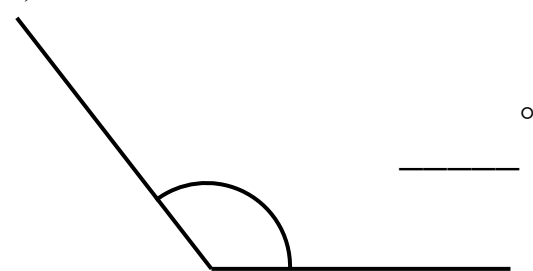
   (7 marks)

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7. a) **Measure** and write down the size of the following angles.

   i)   ii)

           °   °

   _____   _____

   b) Draw and label (i) an angle of 55° and (ii) an angle of 120°
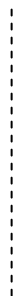
   (5 marks)

_____

8. Look at the following set of numbers and then answer the questions below.

$$5 \quad 6 \quad 7 \quad 8 \quad 9 \quad 10$$
$$11 \quad 12 \quad 13 \quad 14 \quad 15 \quad 16$$
$$17 \quad 18 \quad 19 \quad 20 \quad 21 \quad 22$$
$$23 \quad 24 \quad 25 \quad 26 \quad 27$$
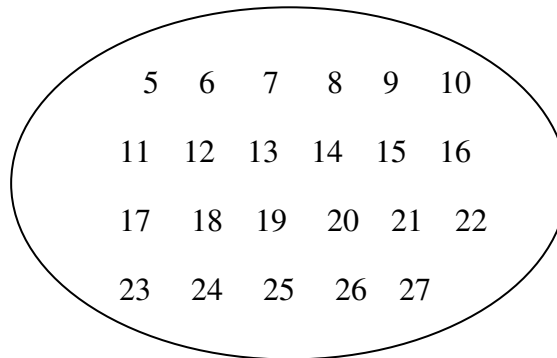
a) Write **two factors** of 30 _____ _____

b) Write **two multiples** of 6 _____ _____

c) Write **two prime numbers** _____ _____

d) Write **two square numbers** _____ _____

e) Write two **odd** numbers which **add** up to 26. _____ _____

(10 marks)

9. John wants to draw the shape below using **LOGO**. The lines measure **40 turtle steps and 80 turtle steps**. (*Turtle is shown in start position*)
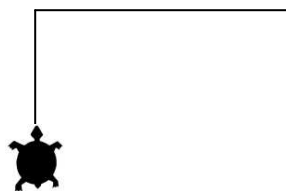
Write the next three commands John enters:

PD

_____

_____

_____

(3 marks)

10. Anne recorded the weather for some days in December. Here are her results.

Mon	Tues	Wed	Thur	Fri	Sat	Sun
☀	🌧	☁	☀	☁	🌧	🌧
🌧	☀	☀	☁	☁	☁	☁
🌧	🌧	🌧	☀	☀	☁	☁

a) Complete the table below

Type of weather	Tally	Frequency
Sunny ☀	� I	
Cloudy ☁		
Rainy 🌧		

b) Complete this **bar chart** which shows the information in the table.
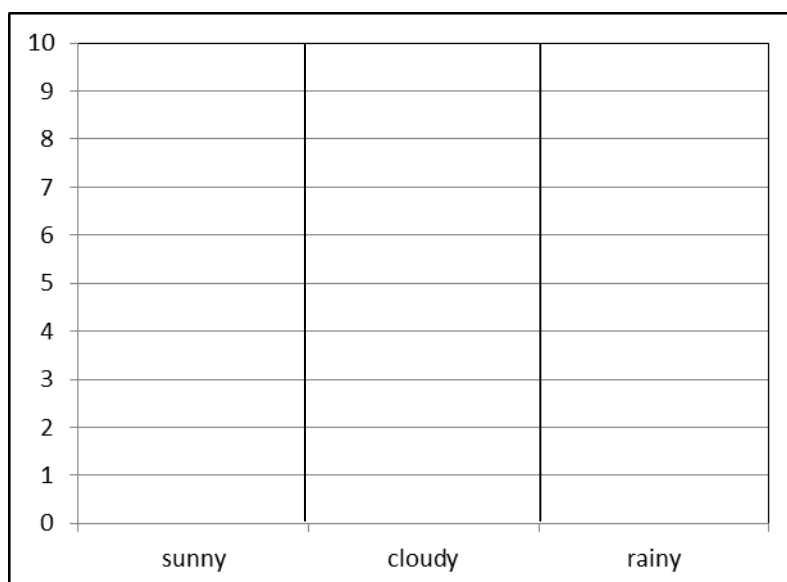
c) Which type of weather was the **most common** during December? _____

(7 marks)

11. These are the weights of ten babies born in a hospital last month.

3.5 kg   2.0 kg   3.8 kg   2.5 kg   2.3 kg

3.0 kg   2.0 kg   3.5 kg   3.2 kg   2.0 kg

a) Find the **mean** of their weights.

b) What is the **mode**?　　　　＿＿＿＿＿＿＿＿＿

(6 marks)

END OF PAPER