

**KULLEĠĠ SAN BENEDITTU**  
**Boys Secondary School, Kirkop**



**HALF-YEARLY EXAMINATIONS – FEBRUARY 2012**

FORM 2

**MATHEMATICS** Scheme D

TIME: 30 mins

**Non Calculator Paper**

Question	1	2	3	4	5	6	7	8	9	10	11	Total
Max. Mark	2	3	4	1	2	3	1	2	3	2	2	25
Mark												

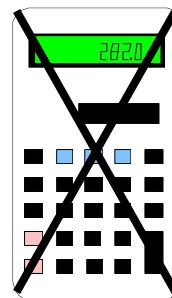
DO NOT WRITE ABOVE THIS LINE

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) Put in order **largest** first.

23, 42, 61, 18

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

- b) Put in order **smallest** first.

214, 412, 124, 200

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(2 marks)

2. Write **True or False**:

a) One hundred and ten = 110 \_\_\_\_\_

b) Two thousand and nineteen = 2,090 \_\_\_\_\_

c) Five thousand, five hundred = 5,500 \_\_\_\_\_

(3 marks)

3. Work out:

a)  $420 + 210 =$  \_\_\_\_\_ b)  $780 + 120 =$  \_\_\_\_\_

c)  $235 - 20 =$  \_\_\_\_\_ d)  $550 - 30 =$  \_\_\_\_\_

(4 marks)

4. Put the number cards **2** and **5** near their multiples.

a) Multiples of  15, 25, 45, 10, 30

b) Multiples of  4, 12, 8, 16, 20

(1 mark)

5.

Tick (✓) the correct answer.



The **total** is:

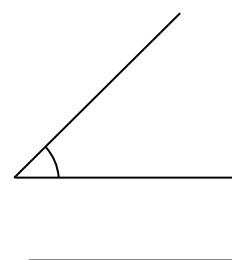
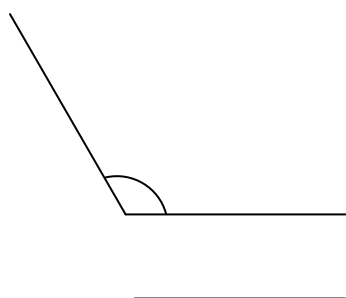
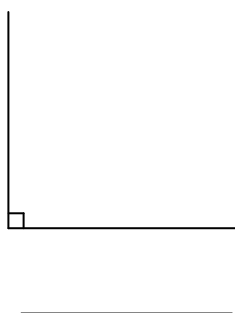
Odd ☐

Even ☐

(2 marks)

6. Choose the **correct size** for each angle.

**45°,      90°,      120°**



(3 marks)

7. Work out:

$$23.45 \text{ kg} \times 10 = \text{_____ kg}$$

(1 mark)

8. Complete:

3, 8, \_\_\_\_, 18, \_\_\_\_, 28

(2 marks)

9. Complete:

a)  $1 + \square = 10$

b)  $\square + 16 = 20$

c)  $30 + \square = 100$

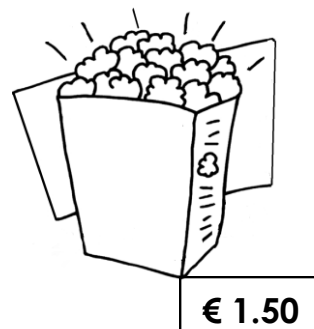
(3 marks)

10. Put in  $>$ ,  $<$  or  $=$

$(25 + 10)$   $\square$   $(60 - 30)$

(2 marks)

11. Amy bought a **drink** and a **bag of popcorn**.

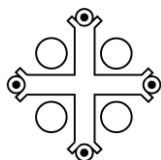


How much did she spend in all?

€ \_\_\_\_\_

(2 marks)

End of Paper



**KULLEĠĠ SAN BENEDITTU**  
**Boys Secondary School, Kirkop**



**HALF-YEARLY EXAMINATIONS – FEBRUARY 2012**

**FORM 2**

**MATHEMATICS** Scheme D  
**Main Paper**

**TIME: 1hr 30mins**

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Main	NC	Global Mark
Max. Mark	2	2	4	8	5	3	7	6	3	5	3	2	3	7	3	3	9	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. Choose the correct **value** of the underlined digits:

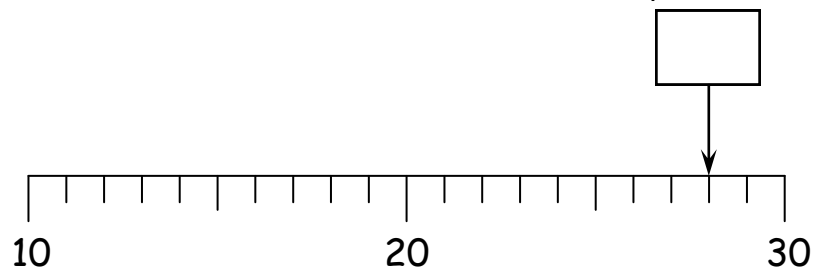
478 (400, 4000, 4, 40)

2423 (2, 200, 20, 2000)

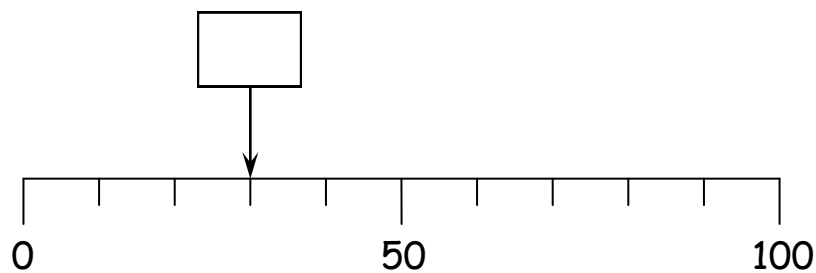
(2 marks)

2. Fill in the boxes with the **number** indicated by the **arrow**.

a)



b)

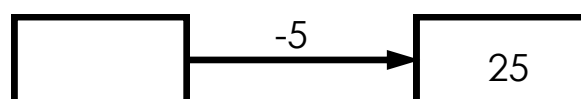


(2 marks)

3. a) Work out the following function machine.





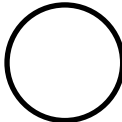
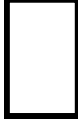
b) Work out the **input** of the following function machine.



(4 marks)

4) a) Complete the table by using:

Square	Rectangle	Circle	Triangle
--------	-----------	--------	----------

Shape	Name of Shape
	
	
	
	

b) **Underline** the correct word.

i) A (square, circle, triangle, rectangle) has **3 vertices**.

ii) A (square, circle, cuboid, rectangle) has **all sides equal**.

c) **Draw** a circle with a radius of 3 cm.  
**Draw** its diameter.



(8 marks)

5. a) Use your **calculator** to work out.

i)  $2857 + 347 = \underline{\hspace{2cm}}$     ii)  $7873 - 258 = \underline{\hspace{2cm}}$

b) Work out the following:

**Example:**  $32 \times 3 = (30 \times 3) + (2 \times 3) = 96$

$$64 \times 5 = (60 \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times 5) = \underline{\hspace{2cm}}$$

(5 marks)

6. Yesterday I bought a **diary** and 2 **gifts**.



1 diary costs **€1.40**



2 gifts cost **€30**

a) How much did I spend **in all**?

€                     

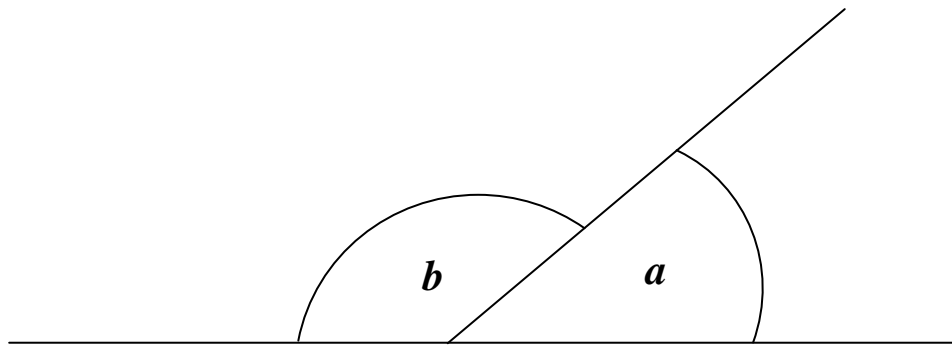
b) Two gifts cost me €30. How much does **one gift** cost?

€                     

(3 marks)



7. a)



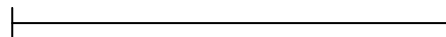
i) Measure **angle a**.

Answer: **a** = \_\_\_\_\_°

(ii) Calculate the size of **angle b**.

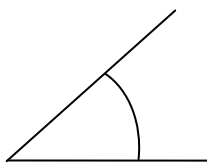
Answer: **b** = \_\_\_\_\_°

b) Draw and mark an angle of 120°

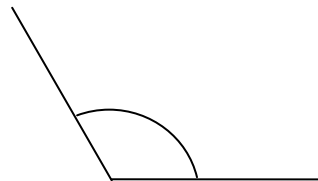


c) Choose a name for each of the given angles from the list below:

<b>Right Angle,</b>	<b>Obtuse Angle,</b>	<b>Reflex Angle,</b>	<b>Acute Angle</b>
---------------------	----------------------	----------------------	--------------------



\_\_\_\_\_



\_\_\_\_\_

(7 marks)

8. a) Work out:

$$\begin{array}{r} \text{(i)} \quad 1.82 \\ + 2.15 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} \text{(ii)} \quad 8.34 \\ - 7.23 \\ \hline \end{array}$$

\_\_\_\_\_

b)

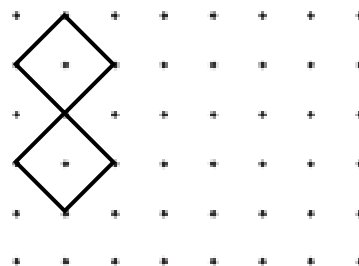
Fraction	Decimal
$\frac{25}{100}$	0.25
$\frac{5}{10}$	_____
_____	0.45

c) Arrange in order **smallest** first.

24, 4.2, 1.23, 2.41 → \_\_\_\_\_

(6 marks)

9. Make a **tessellation** using this shape. **Draw** another **4** shapes.



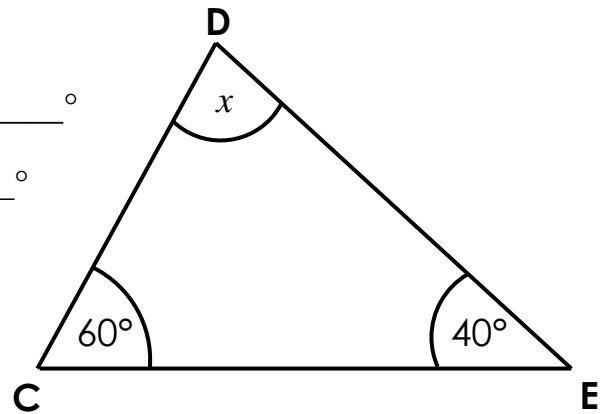
(3 marks)

10. In triangle **CDE**

$$x^\circ + 60^\circ + 40^\circ = \underline{\hspace{2cm}}^\circ$$

$$x^\circ + \underline{\hspace{2cm}}^\circ = \underline{\hspace{2cm}}^\circ$$

$$x^\circ = \underline{\hspace{2cm}}^\circ$$



(5 marks)

11. a) Convert from **euro** to **euro cent**.

$$€ 7.48 = \underline{\hspace{2cm}} \text{c}$$

b) Round to the nearest **euro**

**Example:** € 7.50 to the nearest euro = € 8.00

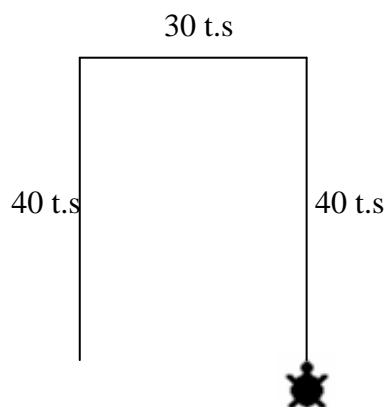
i) € 2.25 to the nearest euro = €         

ii) € 6.80 to the nearest euro = €         

(3 marks)

12. Cheyenne wants to draw this shape using logo.

Fill in the blanks for her.



**PD   FD         LT         FD 30   LT 90   FD 40**

(2 marks)

13. Look at this advert.

How much does it cost for **2 adults**  
and **3 children**?

**Cat World**

Adults €8

Children €5

Answer : \_\_\_\_\_  
(3 marks)

14. a) (i) Complete the sequence.

\_\_\_\_, 45, 40, \_\_\_\_, 30, 25

(ii) Choose the correct answer.

The rule for the sequence above is \_\_\_\_\_.

*(subtract 5, add 5, multiply by 5)*

b) (i) Draw the two **missing** steps.



1<sup>st</sup>



2<sup>nd</sup>

3<sup>rd</sup>

4<sup>th</sup>



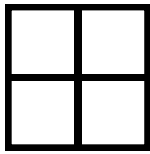
5<sup>th</sup>

(ii) Complete the table with the **number of squares** in each shape.

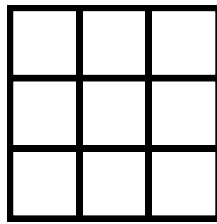
Pattern number	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>
Number of squares	2	3			6

(7 marks)

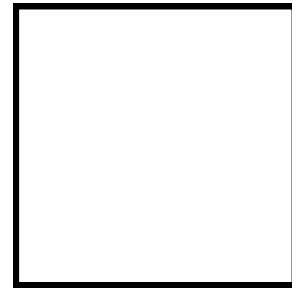
15. a) Fill in the blanks.



$$2 \times 2 = 4$$



$$\_\_\_ \times \_\_\_ = 9$$



$$4 \times 4 = 16$$

Fill in the **missing numbers**

Fill in the **missing pattern**

b) **Underline** the correct answer.

The diagrams above give (*square numbers, even numbers, prime numbers*)

(3 marks)

16. Match

2, 14, 26, 38, 40

Multiples of 3

3, 7, 11, 13, 17

Odd numbers

3, 5, 7, 9, 11

Prime Numbers

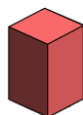
3, 6, 9, 12, 15

Even numbers

(3 marks)

17. a) Fill in with one of these words.

Cylinder,	Cone,	Cuboid
-----------	-------	--------

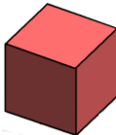
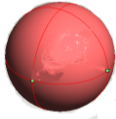


\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b) Fill in the table:

Shape	Solid Shape	No. of Faces	No. of Vertices	No. of Edges
Cube				
Sphere				

(9 marks)

End of Paper