

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												

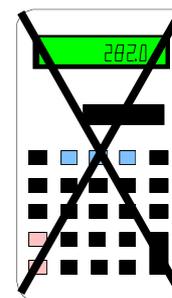
DO NOT WRITE ABOVE THIS LINE

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.

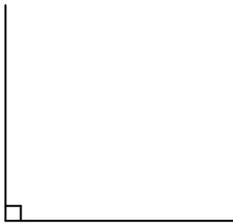
The **total** is:

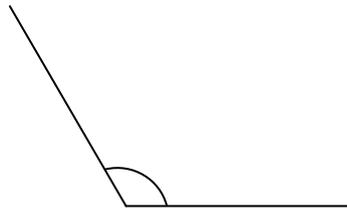
Odd Even

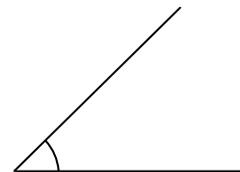
(2 marks)

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) $30 + \square = 100$

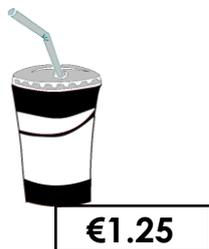
(3 marks)

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

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

(2 marks)

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

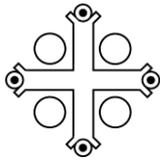


How much did she spend in all?

€ _____

(2 marks)

End of Paper



KULLEĠĠ SAN BENEDITTU
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HALF-YEARLY EXAMINATIONS – FEBRUARY 2012

FORM 2

MATHEMATICS Scheme D

TIME: 1hr 30mins

Main Paper

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.

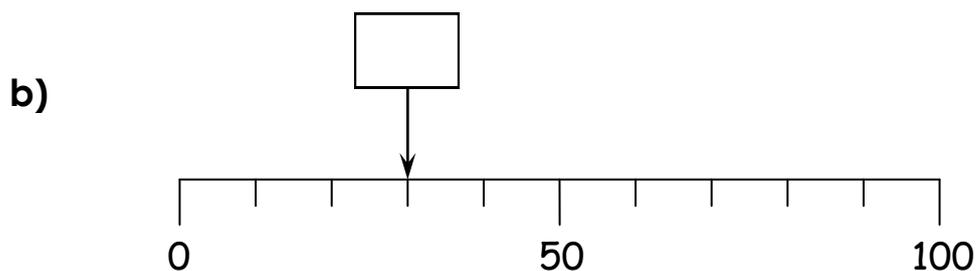
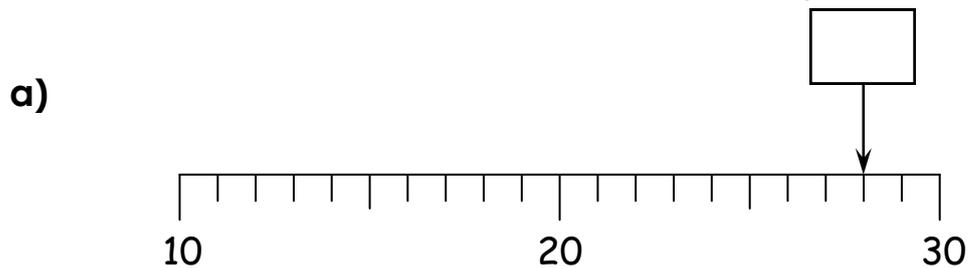
1. Choose the correct **value** of the underlined digits:

478 (400, 4000, 4, 40)

2423 (2, 200, 20, 2000)

(2 marks)

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

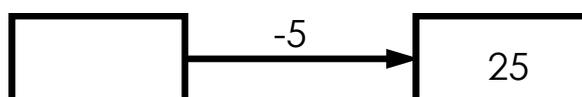


(2 marks)

3. a) Work out the following function machine.



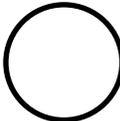
b) Work out the **input** of the following function machine.



(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**?

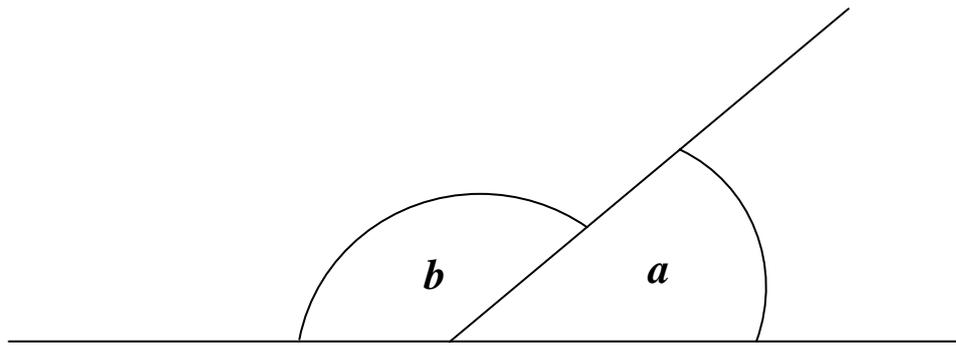
€

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**.

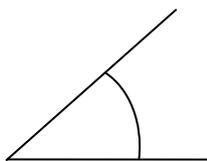
Answer: **b** = _____°

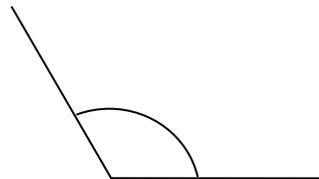
b) Draw and mark an angle of 120°



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

Right Angle,	Obtuse Angle,	Reflex Angle,	Acute Angle
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(7 marks)

8. a) Work out:

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

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

b)

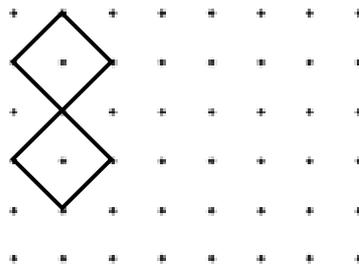
Fraction	Decimal
$\frac{25}{100}$	0.25
$\frac{5}{10}$	_____
_____	0.45

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.



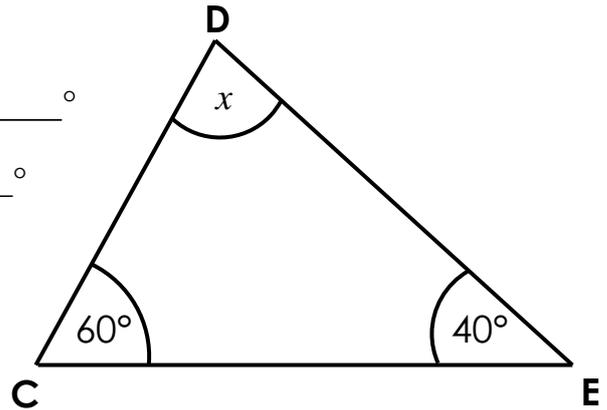
(3 marks)

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**.

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

b) Round to the nearest **euro**

Example: € 7.50 to the nearest euro = € 8.00

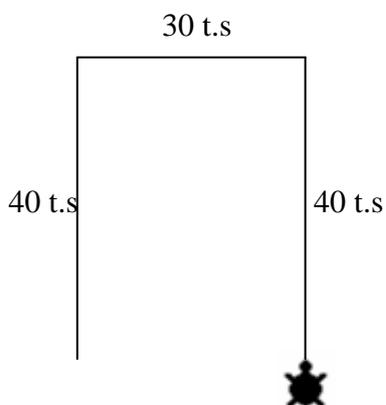
i) € 2.25 to the nearest euro = €

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.

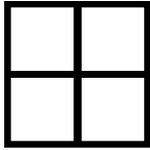


(ii) Complete the table with the **number of squares** in each shape.

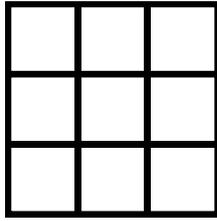
Pattern number	1 st	2 nd	3 rd	4 th	5 th
Number of squares	2	3			6

(7 marks)

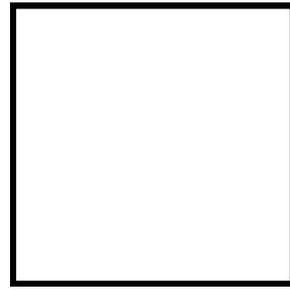
15. a) Fill in the blanks.



$$2 \times 2 = 4$$



$$\underline{\quad} \times \underline{\quad} = 9$$



$$4 \times 4 = 16$$

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

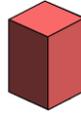
3, 6, 9, 12, 15

Even numbers

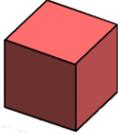
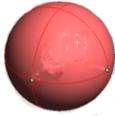
(3 marks)

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