KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

D

HALF-YEARLY EXAMINATIONS – FEBRUARY 2013

| FORM 3 | **MATHEMATICS** Scheme D | | | | | | TIME: 30 mins | |

Non Calculator Paper

| Question	1	2	3	4	5	6	7	Total
Max. Mark	3	6	2	3	3	4	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 are **NOT ALLOWED.**

- On your desk you should have nothing except for **pen, pencil, ruler** and the **examination paper**.
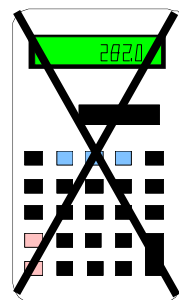
1. Use arrows to match:

0.35 × 10   350

3500 ÷ 100   3500

3.5 × 1000   3.5

3500 ÷ 10   35

(3 marks)

2.   a) Work out

23.58 +   7.14−
___7.93   _2.98_

_____   _____

b) Tom pays €5.95 for a box of chocolates.

What change does he get from a **€10** note?
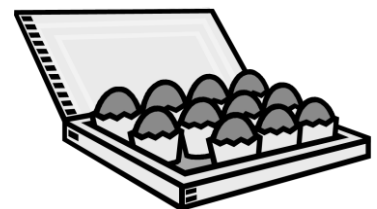
(6 marks)

3. Complete :

a) 2, 5, 8, 11, ____, ____.

b) 1, 4, 9, 16, ____.

(2 marks)

4. Complete

a) 1 metre = _____ centimetres

b) 5000 millilitres = _____litres

c) €3.50 = _____€uro cent

(3 marks)

5. a) Simplify $\dfrac{2}{10} =$

b) Add and simplify $\dfrac{5}{8} + \dfrac{1}{8} =$

(3 marks)

6. a) Write 67 % as a   i) fraction _____

ii) decimal _____

b) Find 50% of €126.

€_____

(4 marks)

7. Work out:

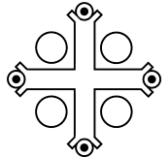   a) $4 \times (7 - 2)$

   Ans: _____

   b) $625 \div 5$

   Ans: _____

   c) 46×3

   Ans: _____

   (4 marks)

END OF PAPER

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HALF-YEARLY EXAMINATIONS – FEBRUARY 2013

FORM 3   **MATHEMATICS** Scheme D   **TIME: 1hr 30mins**

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Main	NC	Global Mark
Max. Mark	4	3	3	9	8	8	4	5	5	4	3	5	3	4	7	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.   John has a packet of **32 cookies**.

He eats $\frac{1}{4}$ of the cookies.

a)   How many cookies does he eat?

Ans _____

b)   How many cookies does he have left?   Ans

_____

(4 marks)

2. a) Write **<u>one thousand and sixty three</u>** in *figures*. _____

    b) Write **<u>4.554</u>** correct to *1 decimal place* (1d.p.). _____

    c) Round **<u>482</u>** to the *nearest 10*. _____

                                                            (3 marks)

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3. a) Find the **<u>sum</u>** of 10 and 6. _____

    b) Find the **<u>difference</u>** between 10 and 6. _____

    c) Find the **<u>product</u>** of 10 and 6. _____

                                                            (3 marks)

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4. a) Complete

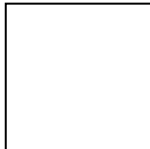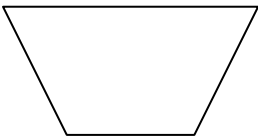   i.   1.7 m = _____cm

        ii. ½ km = _____m

        iii. 2 litres = _____ millilitres
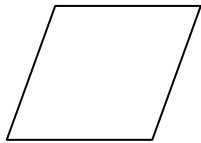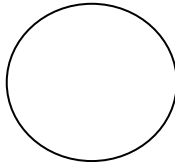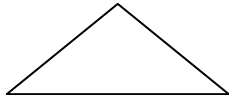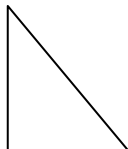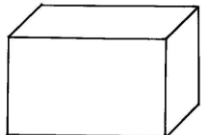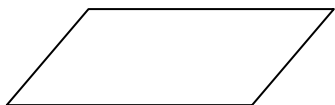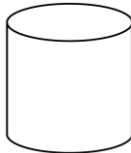
    b) **Arrange** the following weights in order of size, **smallest first**.

5.43 kg	5990 g	5 kg 60 g	5.095 kg	5100 g

                                                            (9 marks)

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5. **Match** the following shapes to their appropriate name

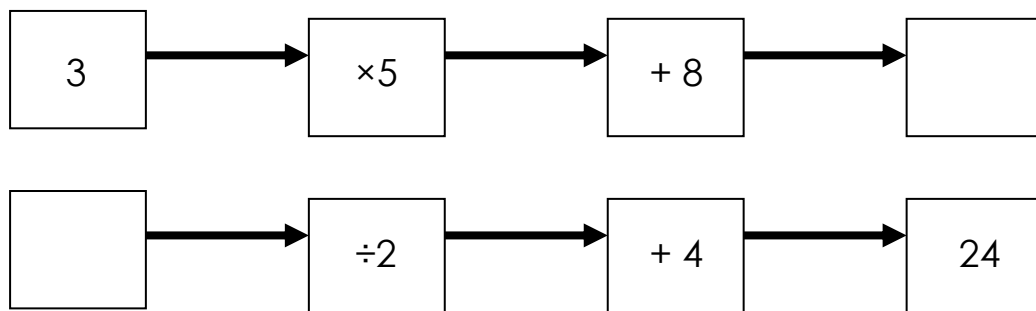|		
1	Isosceles triangle	
2	Circle	
3	Right angled triangle	
4	Cuboid	
5	Cylinder	1
6	Rhombus	
7	Trapezium	
8	Square	
9	Parallelogram	

(8 marks)

6. a) **Complete** the following sequences

    i.   3, 10, 17, 24, ____, ____ .

    ii. 100, 95, 90, 85, ____, ____ .

b) **Fill in** the missing numbers :

| 3 | → | ×5 | → | + 8 | → | |

| | → | ÷2 | → | + 4 | → | 24 |

(8 marks)

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7. A table is marked €120.

    Mrs Calleja buys this table.

    She is given 25 % **discount**.

    a) How much does she **save**?

    b) How much does she **pay** for the table?

(4 marks)

8. Choose from the following list of shapes:

> *scalene, isosceles, equilateral,*
>
> *square, rectangle, trapezium, kite,*
>
> *parallelogram, rhombus, cube*

a) A triangle with 3 different sides. _____

b) A shape with 4 equal sides and 4 equal angles. _____

c) A 3-D shape. _____

d) A shape with only one pair of parallel lines. _____

e) A triangle with 3 equal sides and 3 equal angles. _____

(5 marks)

9. Complete the following table

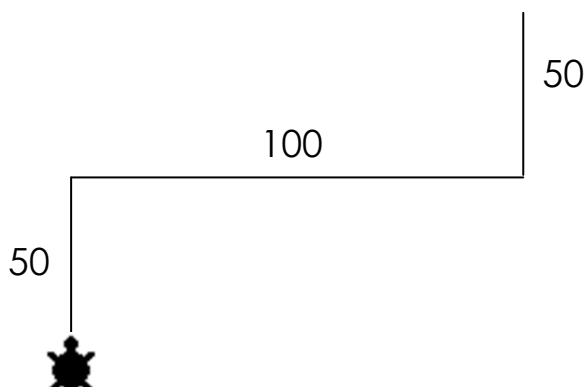| Fraction	Decimal	Percentage
$\frac{1}{4}$	0.25	
	0.3	
		5%

(5 marks)

10. Draw a circle with **radius 4cm**. Name the centre O.

Label the **circumference** and the **centre.**
Draw and label the **radius** and the **diameter.**

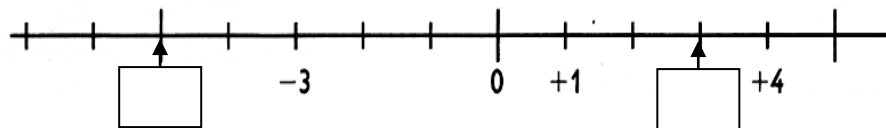Fill in :   The diameter is _____cm long.

(4 marks)

11.   Fill in the LOGO commands to draw this shape.

50

100

50

FD _____ RT 90 _____ 100 LT _____ FD 50

(3 marks)

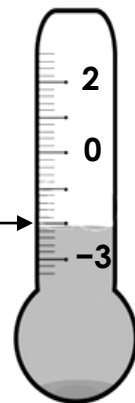12. a) Fill in :

  b) i. **Fill in :** The temperature in London is [   ] °C

      ii. The temperature **goes up** by 5°C in March.

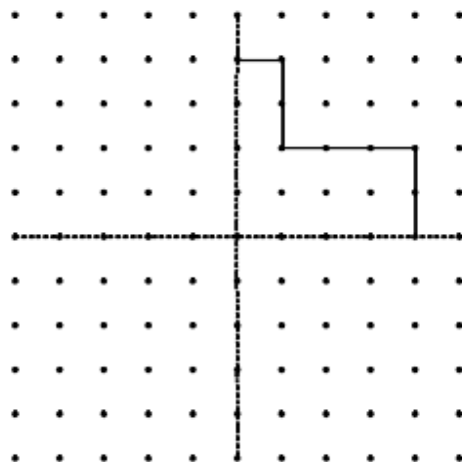   What is the temperature in March?

                                            Ans_____
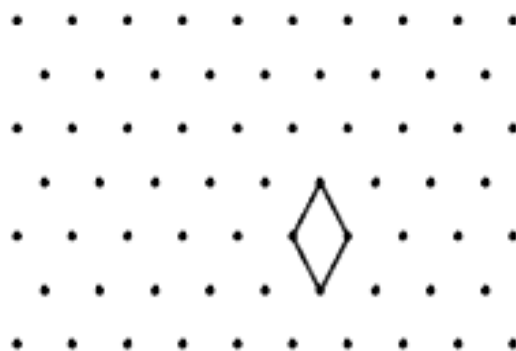
                                                    (5 marks)

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13. a) Draw the reflections in the dotted lines of symmetry.

  b) Make Tessellations using this shape.

                                                    (3 marks)

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14. a) Use your **calculator** to work out:

$$25 \cdot 9 \ \times \ 3 \cdot 4 = \text{_____}$$

Write your answer correct to the **nearest whole number.**

Ans_____

b) Use your **calculator** to find the exact value of:

$$354 \cdot 9 \ \times \ 8 \cdot 6 = \text{_____}$$

Give your answer correct to 1 **decimal place**.

Ans_____

(4 marks)

15. From the following list choose :

8   1   36   9   5   4   15

a) an **odd** number _____

b) an **even** number _____

c) a **prime** number _____

d) a **factor** of 27 _____

e) the **cube** of 2 _____

f) the **square** of 6 _____

g) a **multiple** of 5 _____

(7 marks)