KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

Levels 7-8

HALF-YEARLY EXAMINATIONS – FEBRUARY 2014

FORM 3	MATHEMATICS	TIME: 30mins
	Levels 7–8	

Non Calculator Paper

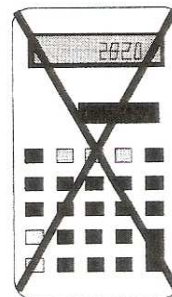| Question	1	2	3	4	5	6	7	8	9	Total
Mark										

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. Thea scored 32 out of 50 possible marks. Write this score as a **percentage**.

Ans:_____%

(1 mark)

2. Evaluate:

$$\left(\frac{1}{7} + \frac{3}{14}\right) \times \frac{7}{5}$$

Ans:_____

(3 marks)

3. a) Fill in the following command to draw a **regular polygon**.

PD Repeat _____ [FD 40 RT 30]

b) Find the **perimeter** of this polygon.

Ans:_____

(2 marks)

4. A tank is being filled with water at the rate of 2 cm³ per second. It takes 3 minutes to be filled. How long would it take to fill the same tank if the **rate** is **increased** to 4 cm³ per second?
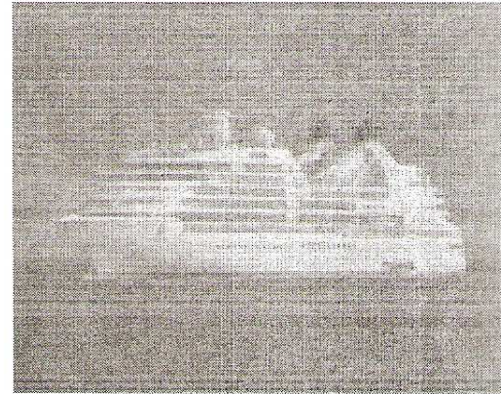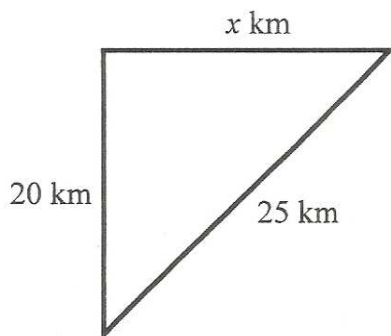
Ans:_____

(3 marks)

5. In this set of 5 numbers, one of them is missing:

$$15, 18, 19, 12, \text{ and } _____ .$$

What number could be the missing one such that the **range** of the group is 10?

6. A ship sails due West for x km and then sails due South for 20 km. It ends up 25 km in a direct straight line from the starting point. Find the value of x.
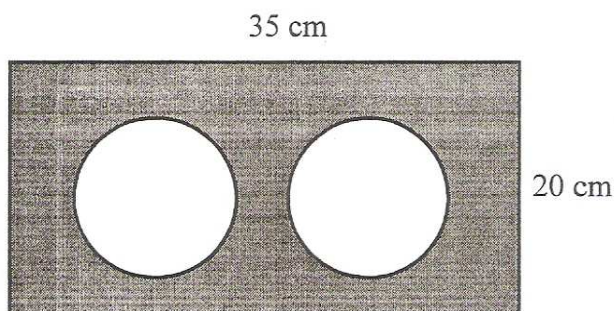

Ans:_____

(3 marks)

7. A caterer is baking cheese cakes. She cuts 2 circles of **radius 7 cm** from a piece of rectangular pastry of 35 cm by 20 cm.
Taking $\pi = \frac{22}{7}$, find the **area** which is left uncut (shaded).

35 cm

20 cm

Ans:_____

(4 marks)

8. On Monday Terry reads ¼ of a book. On Tuesday he reads ½ **of the remaining**. What fraction of the book does he still need to read?

Ans:_____

(4 marks)

9. A manager decides to give €240 to three employees according to how much effort they put in their work. He distributes the money in the ratio 1 : 2 : 3. How much does the employee making the **most** effort get?

Ans:_____

(3 marks)

END OF NON CALCULATOR PAPER