KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

Levels 6-7

HALF-YEARLY EXAMINATIONS – FEBRUARY 2014

FORM 3	**MATHEMATICS** Levels 6-7	TIME: 30mins

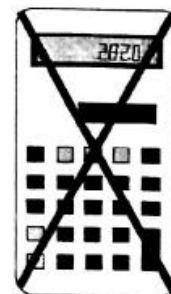### INSTRUCTIONS TO CANDIDATES:

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. Fill in:

   a) 5.7 kg = _____ g

   b) 3 ¼ hour = _____ minutes

   c) 90 mm = _____ cm

   d) 7 ½ litres = _____ ml

(4 marks)

2. Work out:

   a) $3 - 9 + 7 =$ _____

   b) $-17 - (-3) =$ _____

   c) $(-3) \times (-2) \times (-4) =$ _____

   d) $(-24) \div (-4) =$ _____

(4 marks)

3. Simplify: 4 km : 800 m

Ans: _____

(2 marks)

4. Simplify:

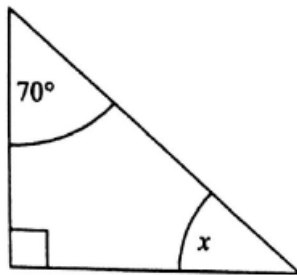   i) $3x + 6y + x - 5y =$ _____   ii) $10 \times a \times a =$ _____

(2 marks)

5. Expand: $6(x + 5) =$ _____

(2 marks)

6. a) What is the sum of the interior angles of a triangle? _____

   b) Find the value of x:

   Ans: $x =$ _____

   (3 marks)

7. A racing car travels at a constant speed of 100 km/hr.
   How far does it travel in 2 ½ hours?

   Ans   _____ km
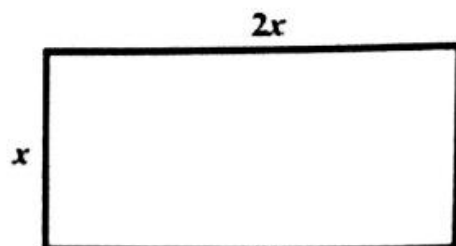
   (1 mark)

8. Work out the following:

   a) $\dfrac{2}{9} \times \dfrac{3}{16}$

   b) $\dfrac{3}{4} + \dfrac{1}{6} - \dfrac{5}{12}$

   (3 marks)

9. The length of a rectangle is twice as long as its width.

$$2x$$

$$x$$

a) Write a formula, in terms of x, for the perimeter P of the rectangle.

Ans: $P =$ _____

b) If $x = 7$ cm, find the value of the **perimeter** of the rectangle.

Ans: Perimeter = _____ cm

c) Write an expression, in terms of x, for the **area** of the rectangle.
Simplify your expression.

Ans _____

(4 marks)

END OF NON CALCULATOR PAPER