



St. Nicholas College
Boys Secondary Naxxar

BS
Naxxar

Half-Yearly Examinations
February 2014

FORM 3

MATHEMATICS TRACK 3
Non Calculator Paper

Time: 30 minutes

Question	1	2	3	4	5	6	7	8	9	10	TOTAL
Mark											

Name: _____

Class: _____

INSTRUCTIONS TO CANDIDATES

- **Answer all questions.**
- **This paper carries 25 marks.**
- **Calculators and protractors are not allowed.**

1. a) A box full of magazines weighs 8 kg. One magazine weighs about 18 g.
Estimate how many magazines are in the box.

Ans: _____

b) Fill in:

(i) 48.5 km = _____ mm

(ii) 4 weeks = _____ days

(4 marks)

2. Work out:

$$-3 \times (-4) + 2 \times (-3) = \underline{\hspace{2cm}}$$

(1 mark)

3. Mandy's watering can is $\frac{3}{5}$ full. She waters her roses and uses **half** of this water.
How much water is left?

Ans: _____

(2 marks)

4. a) Write the following in order of size, starting with the **smallest**

$$\frac{2}{3}, \quad 65\%, \quad 0.6$$

Ans: _____, _____, _____.

- b) Express 72% as a fraction in its lowest term.

Ans: _____

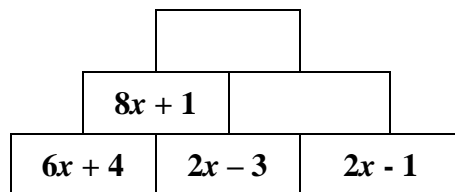
(3 marks)

5. Work out: $\left(\frac{2}{3}\right)^{-2}$

Ans: _____

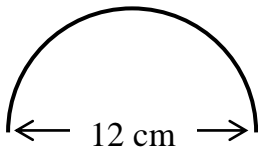
(1 mark)

6. Fill in the following algebra wall:



(2 marks)

7. A wire is in the shape of a semi-circle of diameter 12 cm. Taking π as 3 find the length of wire used.



Ans: _____ cm

(3 marks)

8. Expand the following:

(i) $(x + 7)(x - 2)$

(ii) $4x(x^2 - 3)$

Ans: _____

Ans: _____

(3 marks)

9. €250 is invested for 5 years and earns €100 simple interest. Find the **rate** at which it was invested?

Ans: _____%

(2 marks)

10. Sam and Jasmine bought a car for €8000.
Sam paid 60% of the €8000 and Jasmine paid the rest.

a) How much did **Jasmine** pay?

Ans: € _____

b) Write down the ratio of the payment **Sam : Jasmine** in its simplest form.

Ans: _____ : _____

(4 marks)

END OF NON CALCULATOR PAPER