



ST NICHOLAS COLLEGE  
RABAT MIDDLE SCHOOL  
HALF YEARLY EXAMINATIONS  
February 2016

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YEAR 8

MATHEMATICS  
Levels 7 – 8

Time: 30 mins

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**Non Calculator Paper**

Question	1	2	3	4	5	6	7	8	9	10	NC
Max. Mark	3	3	1	2	3	3	2	3	3	2	25
Mark											

**DO NOT WRITE ABOVE THIS LINE**

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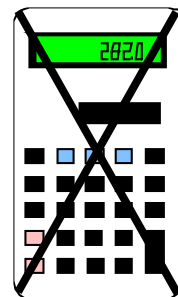
NAME AND SURNAME: \_\_\_\_\_

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**.



1. Arrange in order, **smallest first**:

$$\frac{3}{10}, \quad \frac{31}{100}, \quad 33.4\%, \quad 0.333, \quad \frac{1}{3}$$

Ans: \_\_\_\_\_

(3 marks)

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2. **Estimate:**  $\frac{19.7 \times 3.05}{4.5}$

$$\approx \frac{\boxed{\phantom{00}} \times \boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ans: \_\_\_\_\_

(3 marks)

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3. Fill in with + or - to make the **smallest** possible answer:

$$(-13) \boxed{\phantom{00}} (-5)$$

(1 mark)

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4. Alan and Joan skip down the road.

Alan's skip is 80 cm long while Joan's skip is 100 cm long.

They start together in step. How far do they skip before they are in step again?

Ans: \_\_\_\_\_ cm

(2 marks)

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5. Work out the following:

a)  $306 \times (-8) =$

Ans = \_\_\_\_\_

b)  $2.75 - (-0.25) =$

Ans = \_\_\_\_\_

c)  $4 \times 5 - 14 \div 2 =$

Ans = \_\_\_\_\_

(3 marks)

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6. Mrs. Zammit decided to recycle her rubbish. In one week, her rubbish weighed 25kg. She was able to recycle 16kg of it.

a) What **fraction** did she recycle?

Ans: \_\_\_\_\_

b) What is this as a **percentage**?

Ans: \_\_\_\_\_%

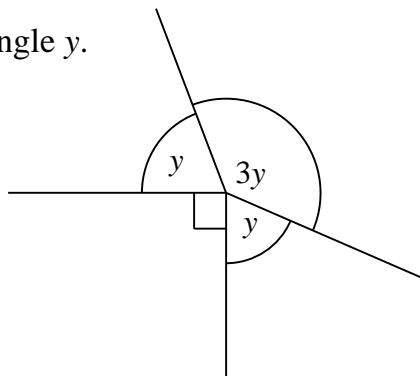
c) Write the answer in part (b) as a **decimal number** rounded to 1 decimal place.

Ans: \_\_\_\_\_

(3 marks)

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7. Find the value of angle  $y$ .



Ans: \_\_\_\_\_

(2 marks)

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8. Write 360 as a product of its prime factors. Write your answer in index form.

Ans: \_\_\_\_\_

(3 marks)

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9. A shoe shop sold 7 pairs of shoes in a day. The sizes of the shoes sold were:

38, 36, 35, 40, 43, 43, 37

From the above sizes find:

a) the mode

Ans: \_\_\_\_\_

b) the median

Ans: \_\_\_\_\_

c) the range

Ans: \_\_\_\_\_

(3 marks)

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10. a) Simplify:  $2x + 3y - 4x + 2y =$  \_\_\_\_\_

b) Expand:  $3(a + 2b) =$  \_\_\_\_\_

(2 marks)

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***END OF NON CALCULATOR PAPER***

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