



ST NICHOLAS COLLEGE  
RABAT MIDDLE SCHOOL  
HALF YEARLY EXAMINATIONS

February 2016

Level  
6 – 7

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FORM 2

MATHEMATICS

TIME: 30 minutes

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Non-Calculator  
Paper

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25

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DO NOT WRITE ABOVE THIS LINE

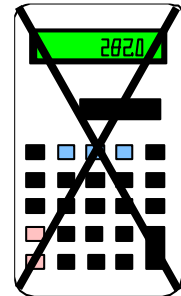
NAME & SURNAME: \_\_\_\_\_ CLASS: \_\_\_\_\_

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**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**.
- You are not required to show your working. However, space for working is provided if you need it.



1. (a) **Underline** the numbers in the set below, that are a **multiple of 6 and a factor of 48**

8            12            18            24            30            40

- (b) What is the **highest common factor** of 30 and 45?

Answer: \_\_\_\_\_

(2 marks)

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2. In this magic square, the numbers in every row, column and diagonal add up to **45**.

Work out the value of  $x$ .

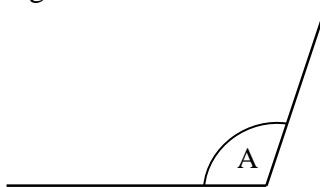
		<b>12</b>
<b>13</b>		
<b>18</b>		$x$

Answer:  $x =$  \_\_\_\_\_

(2 marks)

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3. (a) **Estimate** the size of angle A.



Answer: A = \_\_\_\_\_ °

- (b) **Underline** the **incorrect** statement.

- i. The angles in a triangle add up to  $360^\circ$ .
- ii. The angles at a point add up to  $360^\circ$ .
- iii. The angles in a quadrilateral add up to  $360^\circ$ .

(2 marks)

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4. (a) The clock shows **ten o'clock**.

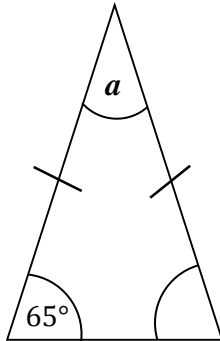
The size of the **reflex** angle formed between the hands of the clock is:

$60^\circ$        $90^\circ$        $300^\circ$        $330^\circ$



- (b) The diagram shows an **isosceles** triangle.

Work out the size of angle  $a$ .



Answer:  $a =$  \_\_\_\_\_

(4 marks)

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5. (a) Simplify  $8y + 5x - 10x - 4y$

Answer: \_\_\_\_\_

- (b) Expand and simplify  $5(x + 2) - 6$

Answer: \_\_\_\_\_

(4 marks)

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6. Write the following decimal numbers in **ascending** order (**smallest to largest**):

0.27      0.217      1.072      0.027      0.207

Answer: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(3 marks)

7. (a) The **mean** of two numbers is 8. One of the numbers is 11.  
What is the other number?

Answer: \_\_\_\_\_

- (b) Find the **median** of the following numbers:

18      23      31      20      33      25

Answer: \_\_\_\_\_

(4 marks)

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8. (a) Give an **estimate** for:

$$\frac{53.15 \times 9.4}{4.89}$$

Answer: \_\_\_\_\_

- (b) An **empty** metal bottle weighs 0.25 kg.  
John fills the bottle with 0.1 kg of oil.  
How much does the **bottle with oil** weigh now?



Answer: \_\_\_\_\_ kg

(4 marks)

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**END OF PAPER**