MARIA REGINA COLLEGE
BOYS' SECONDARY MOSTA

always
Creative, Innovative, Professional

BSM
Triq il-Biedja, Mosta
Tel: 27445001/2
Email:mrc.mosta.bs@gov.mt

HALF YEARLY EXAMINATIONS 2014-15

MATHEMATICS **Non-Calculator Paper** **Form 2 Level 7-8** **Time: 30 min**

NAME:_____ CLASS:_____

Index No: _____

Mark	Levels
	7-8

INSTRUCTIONS TO CANDIDATES

- *Answer all questions.*
- *There are 11 questions.*
- *This paper carries 25 marks.*
- *Calculators and protractors are not allowed.*

1. Write the following in **ascending order** (starting from the smallest).

$$\frac{3}{5}, \quad 0.68, \quad \frac{2}{3}$$

_____, _____, _____. (2 marks)

2. (a) Express 12 and 16 as **product of primes**.

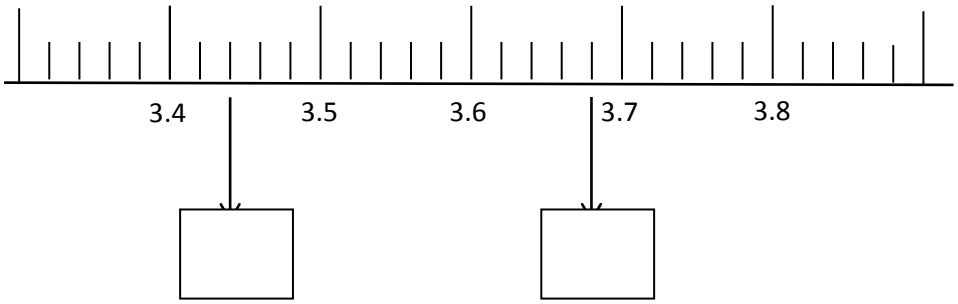
12 = _____

16 = _____

(b) Find the **Highest Common Factor** of 12 and 16.

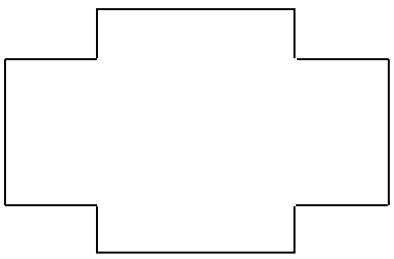
HCF = _____ (3 marks)

3. Fill in the two spaces with the correct values shown on the number line.



(2 marks)

4. What is the order of **rotational symmetry** of this shape?



Rotational symmetry of order _____ (1 mark)

5. Work out

(a) $12 \times (-3) =$ _____ (b) $(-9) - (-5) =$ _____ (c) $(-16) + (-3) =$ _____

(3 marks)

---

6. (a) Write $5\frac{2}{3}$ as an improper fraction

_____

(b) Write $\frac{23}{4}$ as a mixed number

_____

(c) Work out $\frac{3}{5} - \frac{1}{6}$

_____

(4 marks)

---

7. Give a **rough estimate** for

$$\frac{38.6 \times 2.92}{11.5}$$

$\approx$ _____

(2 marks)

---

8. From the following set of numbers {19, 20, 21, 22, 23} choose any two numbers that are:

(a) prime: _____, _____.

(b) factors of 420: _____, _____.

(c) multiples of 2: _____, _____.

(3 marks)

---

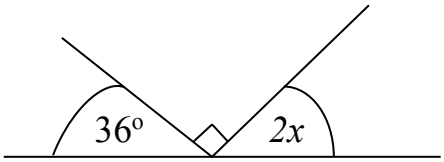
9. Fill in using $<$, $>$ or $=$

(a) 5.2 _____ $5\frac{1}{4}$ (b) 9.5km _____ 95,000m

(2 marks)

---

10. Find the value of x



x = _____°

(1 mark)

---

11. Find the value of $6a + 7$ given that $a = 5$

Ans = _____

(2 marks)

END OF PAPER