



ST NICHOLAS COLLEGE  
RABAT MIDDLE SCHOOL  
HALF YEARLY EXAMINATIONS 2016

CCP

**YEAR 8** **MATHEMATICS (Main Paper)** **TIME: 1 hour**

Question	1	2	3	4	5	6	7	8	9	10	11	12	Total Main	Non- Calc	Global Mark
Mark															

DO NOT WRITE ABOVE THIS LINE

Name: \_\_\_\_\_ Class: \_\_\_\_\_

**Calculators and protractors are allowed  
but all necessary working must be shown.**

**1. Round:**

a) 83 to the nearest **ten**. \_\_\_\_\_

b) 694 to the nearest **hundred**. \_\_\_\_\_

c) 36.5 to the nearest **whole number**. \_\_\_\_\_

(3 marks)

**2. Fill in with +, -, x or ÷.**

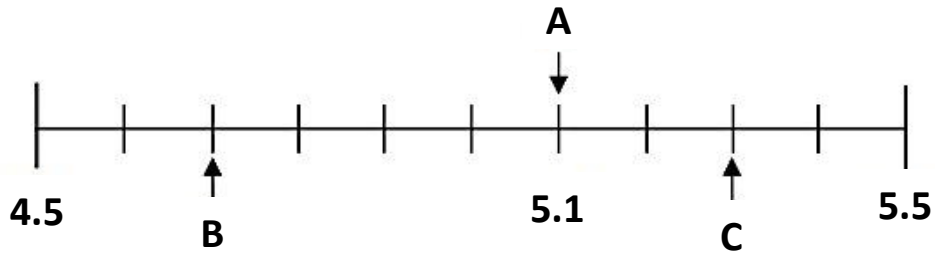
a)  $578 \square 526 = 1104$

b)  $85 \square 4 = 340$

c)  $85 \square 5 = 17$

(6 marks)

3. Arrow **A** points to **5.1** on the number line.



a) **Fill in:**

i) Arrow **B** points to \_\_\_\_\_.

ii) Arrow **C** points to \_\_\_\_\_.

b) Work out the **difference** between the numbers **B** and **C**.

\_\_\_\_\_ (4 marks)

4. Write these numbers in order, from **smallest to biggest**.

3.12, 3.1, 312, 31.2

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(3 marks)

5. a) **Simplify** this fraction to its lowest form.

$$\frac{6}{16} = \frac{\square}{\square}$$

b) **Work out:**

$$\frac{3}{8} + \frac{2}{8} = \frac{\square}{\square}$$

(4 marks)

Name: \_\_\_\_\_ Class: \_\_\_\_\_

6. Michael and Karl sell apples.

a) Michael sells apples at **€6 for a 10 kg crate** of apples. Dad buys a crate of apples from Michael. What is the cost of **1 kg of** apples?

\_\_\_\_\_ cent

b) Karl sells apples at **70 cent per kg**.

Why does Dad prefer to buy apples from Michael and not from Karl?

\_\_\_\_\_

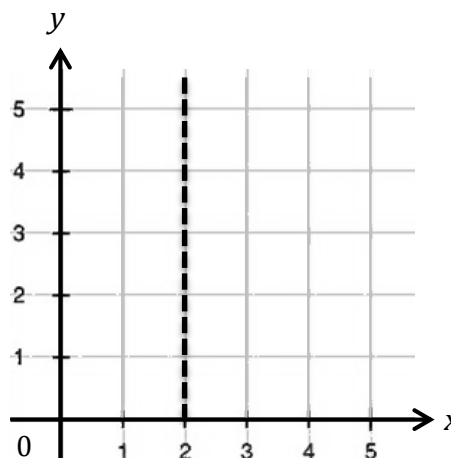
(4 marks)

7. a) i) **Plot** these points on the grid:

(2, 5), (0, 3), (2, 0)

ii) **Draw a line** to join all the points.

b) **Reflect** the shape in the dotted line.



c) Tick (✓) the correct answer.

The shape drawn is called a:

rhombus

parallelogram

kite

(8 marks)

8. a) Use the list of numbers to answer the questions. Each number can be used **more than once**.

- |   |   |   |   |   |    |    |    |    |
|---|---|---|---|---|----|----|----|----|
| 3 | 5 | 6 | 8 | 9 | 10 | 11 | 16 | 21 |
|---|---|---|---|---|----|----|----|----|

i) Write down two **even** numbers. \_\_\_\_\_ and \_\_\_\_\_

ii) Write down two **factors of 20**. \_\_\_\_\_ and \_\_\_\_\_

iii) Write down two **square** numbers. \_\_\_\_\_ and \_\_\_\_\_

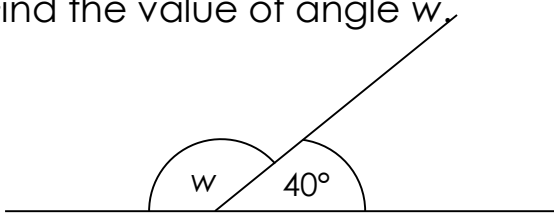
iv) Write down two **prime** numbers. \_\_\_\_\_ and \_\_\_\_\_

b) Tick (✓) which statement is **True** or **False**. The first one is done for you.

	<b>True</b>	<b>False</b>
30 is a multiple of 3.	✓	
i) Multiples of 5 end in 5 or 0.		
ii) Multiples of 2 end in 1, 3, 5, 7 or 9.		
iii) There are five even numbers between 9 and 19.		
iv) When you add two odd numbers, the answer is another odd number.		

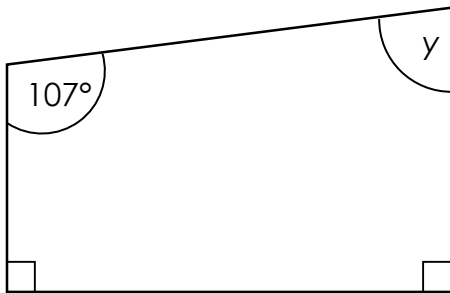
(12 marks)

9. a) Find the value of angle  $w$ .



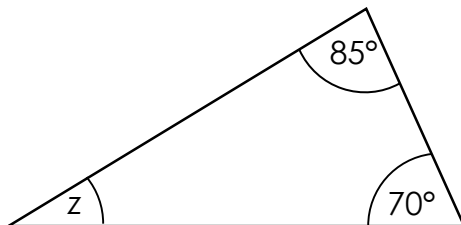
$w = \underline{\hspace{2cm}}$

b) Find the value of angle  $y$ .



$y = \underline{\hspace{2cm}}$

c) Find the value of angle  $z$ .

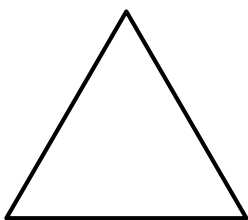


$z = \underline{\hspace{2cm}}$

(8 marks)

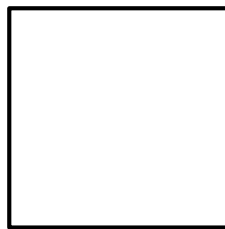
10. a) **Draw** all the line(s) of symmetry.

i)



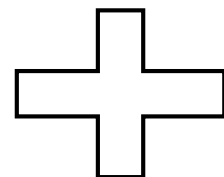
**Equilateral Triangle**

ii)




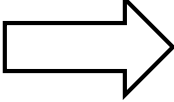
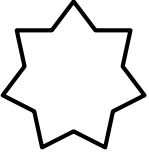
**Square**

iii)



**Cross**

10. b) Complete this table by ticking (✓) in the correct space.

Shape	Has line(s) of symmetry	Has no lines of symmetry
		
		
		

(9 marks)

11. a) **Underline** the correct answer.

i)  $85^\circ$  is an (acute, right, obtuse) angle.

ii)  $157^\circ$  is an (acute, obtuse, reflex) angle.

b) Which angle is the **larger**?

**THE LARGER**

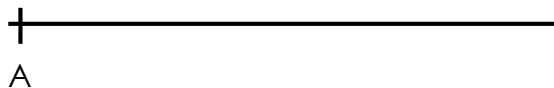
i) a **right** angle or an **acute** angle

\_\_\_\_\_

ii) an **obtuse** angle or a **reflex** angle

\_\_\_\_\_

c) Use a **protractor** to draw an angle of  $60^\circ$  at point A.



(6 marks)

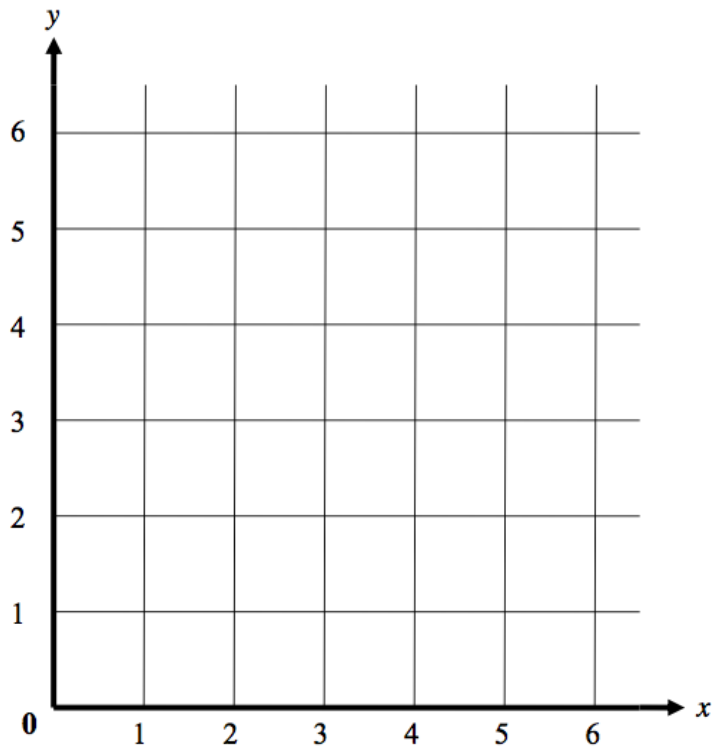
12. Tony writes a rule to draw a straight-line graph. The rule is:

**y coordinate is two more than x coordinate**

a) Complete the following coordinates **using Tony's rule**.

(1, \_\_\_\_)      (3, \_\_\_\_)      (4, \_\_\_\_)

b) **Plot** these points on the grid shown below and join them.



c) Tick (✓) the correct answer.

Is the point (2, 5) on the line?

YES

NO

(8 marks)

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**END OF MAIN PAPER**