

KULLEĠĠ SAN BENEDITTU

Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2015/2016

Level CCP

YEAR 8

MATHEMATICS Level CCP

TIME: 30 mins

Non Calculator Paper

| | | | | | | | | |
|-----------|---|---|---|---|---|---|---|----|
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NC |
| Max. Mark | 4 | 4 | 2 | 4 | 5 | 3 | 3 | 25 |
| Mark | | | | | | | | |

DO NOT WRITE ABOVE THIS LINE

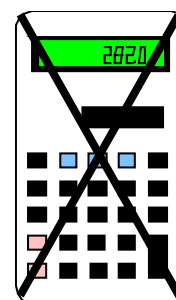
Name: _____

Class: _____

INSTRUCTIONS TO CANDIDATES:

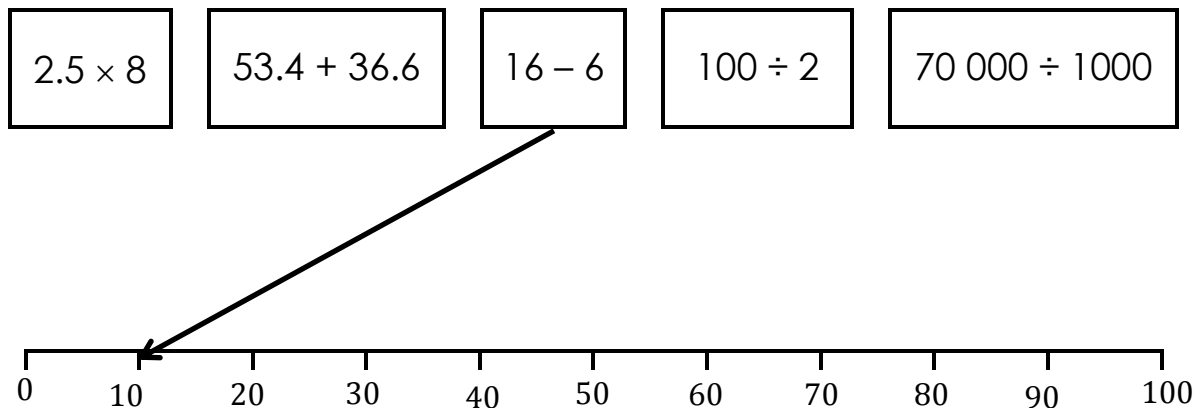
Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 25 marks.
- Calculators and protractors are **NOT ALLOWED**.



1. Match. One is done for you.

[If necessary, show your working in the space below].



(4 marks)

2. Fill in:

- a) 786 209 more ➔ _____
- b) 947 163 less ➔ _____

(4 marks)

3. Underline the correct answer.

- a) Four times a right angle = (a point, a straight line, a whole turn).
- b) Half a turn = (45°, 90°, 180°).

(2 marks)

4. a) **Name the triangles.** Use the words in the box below.

scalene

isosceles

equilateral

right-angled

i) I am a triangle with 2 equal sides and 2 equal angles.

_____ triangle

ii) I am a triangle with all sides and all angles equal.

_____ triangle

iii) I am a triangle with a 90° angle.

_____ triangle

b) **Underline** the correct answer.

A shape with **four sides** is called a:

(circle, triangle, quadrilateral).

(4 marks)

5. Place these numbers or statements under the correct heading.

+8

-7

4 below zero

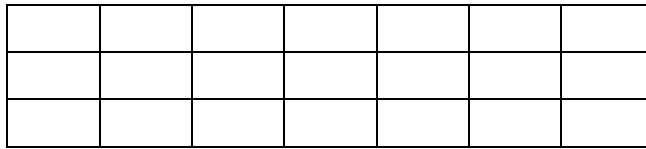
15

17 above zero

| Positive numbers | Negative Numbers |
|------------------|------------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

(5 marks)

6. a) **Shade** $\frac{3}{7}$ of this rectangle.



- b) **Fill in:**

$$\frac{3}{7} = \frac{\boxed{}}{21}$$

(3 marks)

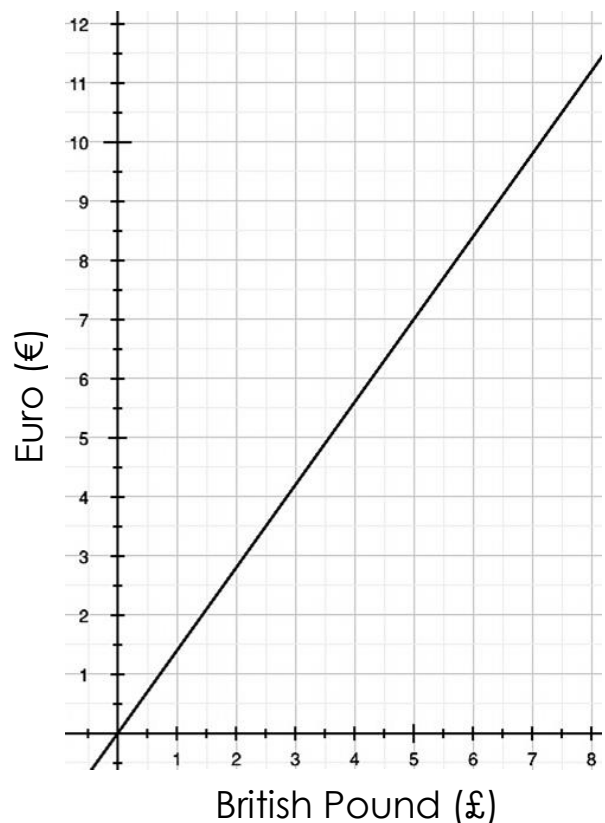
7. This graph changes money from British pound (£) to Euro (€).

£5 is roughly equal to €7

- a) **Use the graph** to fill in the blanks:

i) £2.50 = € _____

ii) £ _____ = €10.50

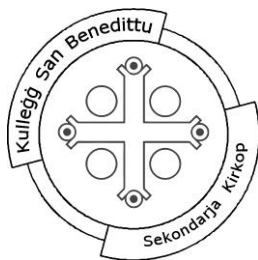


- b) **Underline** the correct answer.

£1 is roughly equal to (€1.50, 50 cent, €8).

(3 marks)

END OF NON-CALCULATOR PAPER



KULLEGG SAN BENEDITTU

Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2015/2016

Level CCP

YEAR 8

MATHEMATICS Level CCP

TIME: 1 hr

Main Paper

| Ques. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Main | NC | Global Mark |
|-----------|---|---|---|---|---|---|---|----|---|----|----|----|------|----|-------------|
| Max. Mark | 3 | 6 | 4 | 3 | 4 | 4 | 8 | 12 | 8 | 9 | 6 | 8 | 75 | 25 | 100 |
| 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 +, −, × or ÷.

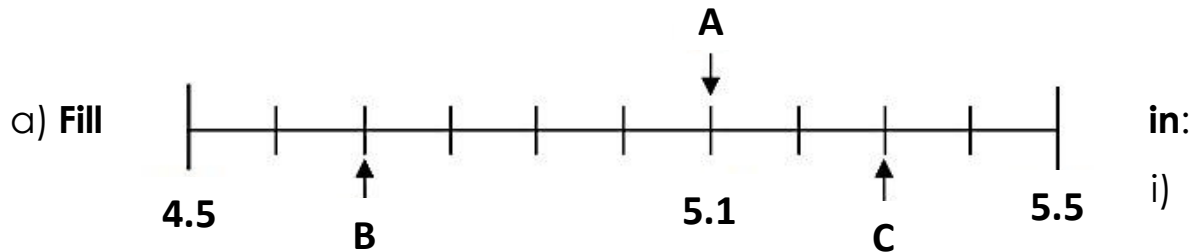
a) $578 \square 526 = 1104$

b) $85 \square 4 = 340$

c) $85 \square 5 = 17$

(6 marks)

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



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.

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

b) **Work out:**

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

(4 marks)

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?

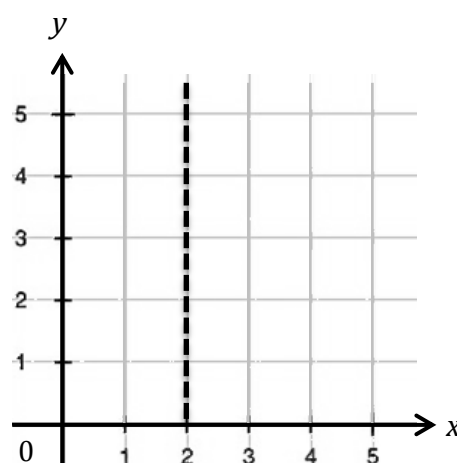
(4 marks)

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 _____

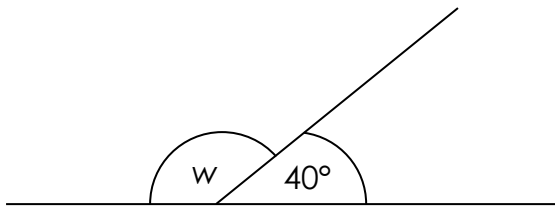
- b) Tick (✓) which statement is **True** or **False**.

The first one is done for you.

| | True | False |
|---------------------------------------------------------------------|------|-------|
| 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. | | |

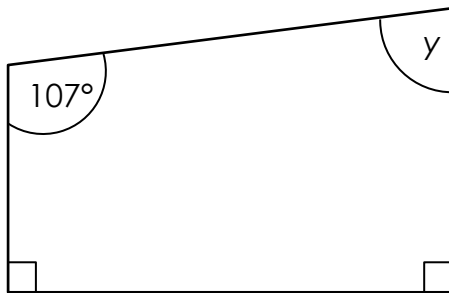
(12 marks)

9. a) Find the value of angle w .



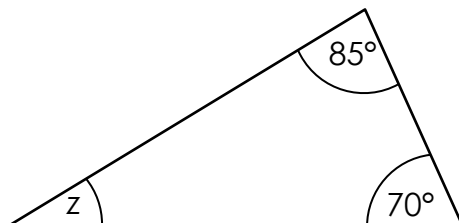
$w = \underline{\hspace{2cm}}$

b) Find the value of angle y .



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

c) Find the value of angle z .

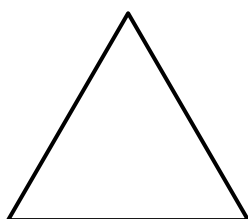


$z = \underline{\hspace{2cm}}$

(8 marks)

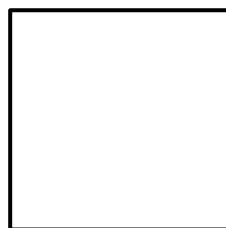
10. a) **Draw** all the line(s) of symmetry.

i)



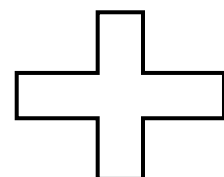
Equilateral Triangle

ii)




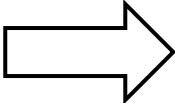
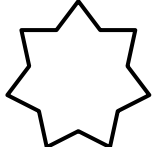
Square

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° is an (acute, right, obtuse) angle.

ii) 157° is an (acute, obtuse, reflex) angle.

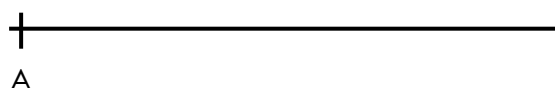
b) Which angle is the **larger**?

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° 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

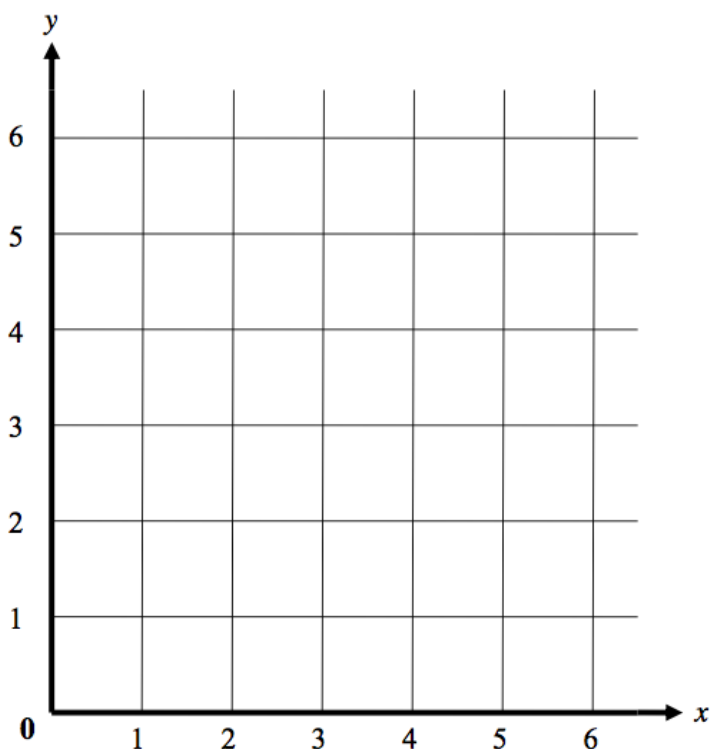
a) Complete the following coordinates **using Tony's rule**.

(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)

END OF MAIN PAPER
