

# KULLEĠĠ SAN BENEDITTU

## Secondary School, Kirkop

Mark

### HALF YEARLY EXAMINATION – 2015/2016

Level 5 – 7

YEAR 8

MATHEMATICS Level 5 - 7

TIME: 30 mins

#### Non Calculator Paper

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

DO NOT WRITE ABOVE THIS LINE

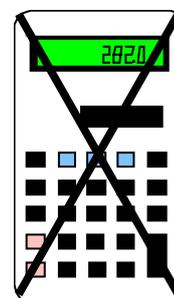
Name: \_\_\_\_\_

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

#### INSTRUCTIONS TO CANDIDATES:

Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 25 marks.
- **Calculators, protractors** and other mathematical instruments are **NOT ALLOWED**.
- On your desk you should have nothing except for **pen, pencil, ruler** and the **examination paper**.



1. **Work out:**

a)  $4.38 \times 10 =$  \_\_\_\_\_

b)  $28.8 \div 4 =$  \_\_\_\_\_

c)  $(3 \times 3) - (6 \times 2) + 1 =$  \_\_\_\_\_

(4 marks)

---

2. **Work out and circle the side which gives the larger answer.**

a)  $-5 - 4$    $-7 + 3$

b)  $\frac{4}{15} + \frac{1}{15}$    $\frac{7}{15} - \frac{4}{15}$

c)  $(3 \times 6) \div 2$    $3 \times (10 \div 2)$

(6 marks)

---

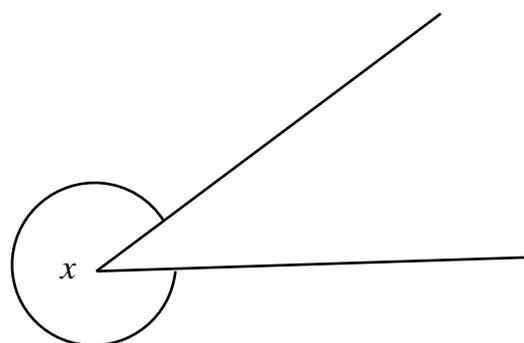
3. **Tick (✓) the correct answer.**

a) The size of angle  $x$  is **about**:

- $30^\circ$   
  $150^\circ$   
  $330^\circ$

b) Angle  $x$  is:

- acute  
 obtuse  
 reflex



(2 marks)

---

4. A packet of crisps weighs 40 grams. The company **increases** the weight by **50%**. What is the new weight?

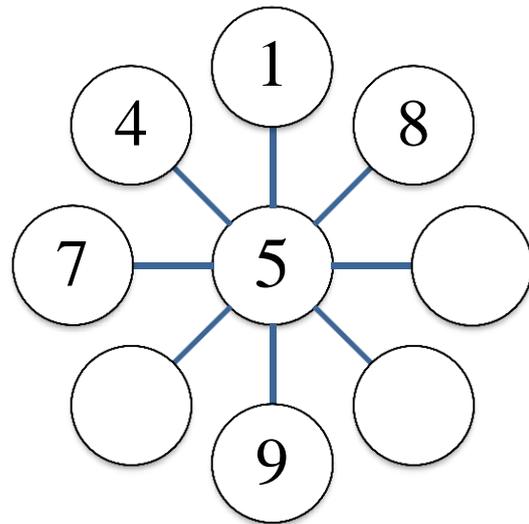


Ans: \_\_\_\_\_ grams

(3 marks)

5. Look at this number puzzle.

**Rule**  
Each line of three numbers  
**adds up to the same number.**



a) **Add** the given line with 3 numbers. What is the answer?

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

b) **Fill in** the number puzzle using these numbers:

6

2

3

(4 marks)

6. Marisa buys these three pairs of shoes.



Leather shoes  
€95.50



Sandals  
€70.75



High heel shoes  
€85.99

a) Which is the **cheapest** item?

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

b) Put the prices in order of size, **smallest** first.

€ \_\_\_\_\_, € \_\_\_\_\_, € \_\_\_\_\_

c) **Work out** Marisa's bill.

Ans: € \_\_\_\_\_

d) Marisa has €265. How much **change** does she get?

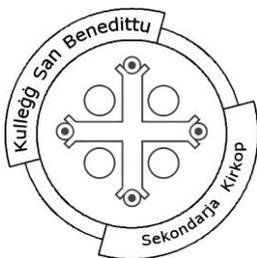
Ans: € \_\_\_\_\_

(6 marks)

---

**END OF NON CALCULATOR PAPER**

---



# KULLEGG SAN BENEDITTU Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2015/2016

Level 5 – 7

YEAR 8

**MATHEMATICS** Level 5 - 7

TIME: 1 hr 30 mins

## Main Paper

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	Main	NC	Global Mark
Max. Mark	5	4	5	3	3	7	5	7	5	15	5	11	75	25	100
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 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. **Match.** One is done for you.

$$\frac{3}{10}$$

$$0.5$$

$$25\%$$

$$\frac{3}{4}$$

$$100\%$$

$$0.1$$

$$0.25$$

$$\frac{1}{10}$$

$$1$$

$$50\%$$

$$0.75$$

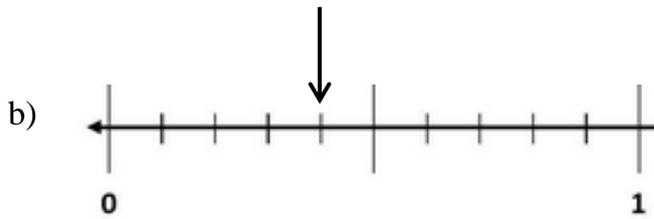
$$30\%$$

(5 marks)

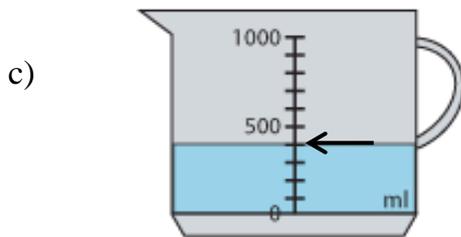
2. At what value is the arrow pointing?



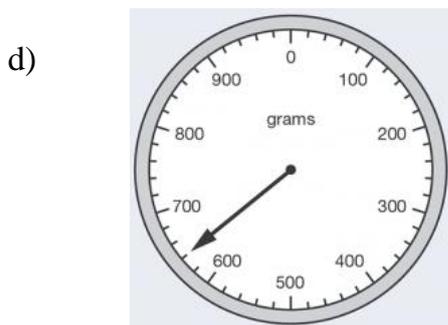
Ans: \_\_\_\_\_



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



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



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

(4 marks)

3. Complete the following table of temperature changes. The first one is done for you.

Original Temperature	Temperature change	Final Temperature	Working (if needed)
-2°C	+11°C	9°C	-2 + 11 = 9
6°C	-10°C		
	-3°C	8°C	
-5°C		-2°C	

(5 marks)

4. **Work out** the value of  $7t + s$  when  $t = 2$  and  $s = 10$ .

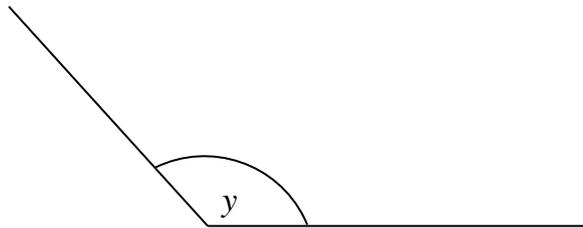
Ans: \_\_\_\_\_

(3 marks)

---

5. Use a protractor to:

a) measure angle  $y$ .



Angle  $y =$  \_\_\_\_\_ $^{\circ}$

b) draw and mark an angle of  $68^{\circ}$  at point A.



(3 marks)

---

6. Tick ( $\checkmark$ ) which statement is **True** or **False**.

	True	False
a) 1 is a prime number.		
b) $2^3 = 6$ .		
c) 7 is a factor of 28.		
d) 38 is a multiple of 9.		
e) $5^2 = 25$ .		
f) 17, 23 and 81 are even numbers.		
g) 36574 rounded to the nearest hundred is 36600.		

(7 marks)

7. Fill in:

a)  $17 \rightarrow +9 \rightarrow \square$

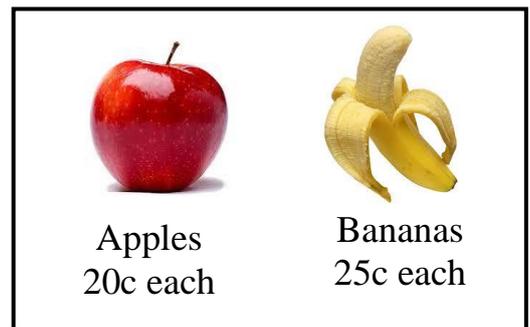
b)  $8 \rightarrow \square \rightarrow 48$

c)  $\square \rightarrow \div 5 \rightarrow 7$

(5 marks)

8. An apple costs 20c and banana costs 25c.

a) Work out the cost of 2 apples and 3 bananas.



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

b) Jane buys 6 apples and some bananas. She pays €1.70c.  
How many bananas does Jane buy?

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

c) Fill in the formula using  $a$  for the number of apples and  $b$  for the number of bananas.

$$\text{Cost (in cents)} = 20 \times \square + 25 \times \square$$

(7 marks)

9. Karl has €30 pocket money every month.

- a) Karl spends  $\frac{3}{10}$  of his pocket money on transport.  
How much does he spend on transport?

Ans: € \_\_\_\_\_

b) Apart from spending money on transport, Karl spends €5 on sweets.

He saves the rest of his pocket money. How much money does Karl save?

Ans: € \_\_\_\_\_

(5 marks)

---

10. a) Here are the weights, in kg, of **12 children**.

40.2	41.4	45.1	45.1	48.5	50.3
42.3	42.7	44.4	46.2	46.3	46.6

i) Find the **range** of the children's weight.

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

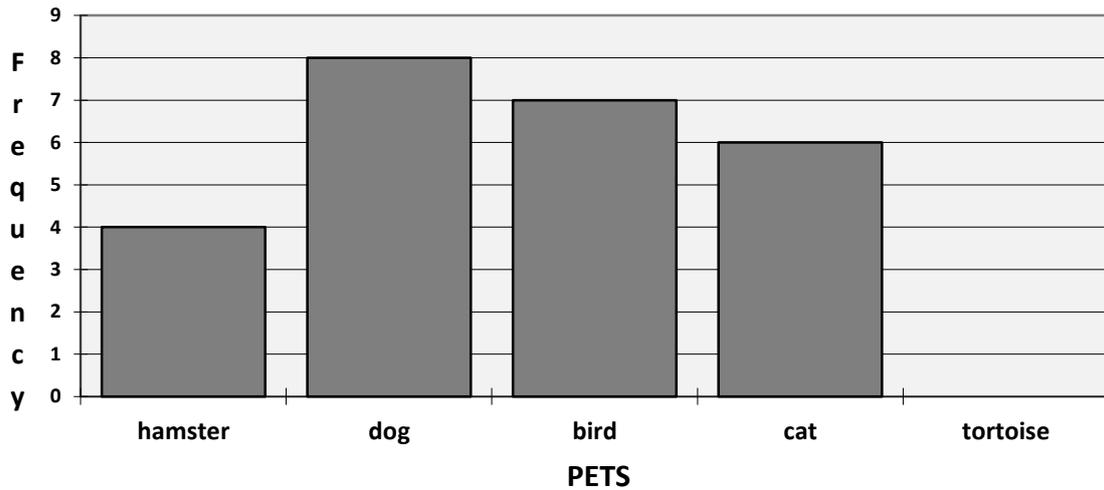
ii) Find their **median** weight.

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

iii) Find their **mean** weight, giving your answer to 1 d.p.

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

10. b) The bar chart below shows the number of pets owned by the children.



i) **Two children** own a tortoise. Complete the bar chart by drawing the missing bar.

ii) Which is the most common pet?

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

iii) How many **more** birds than hamsters are there?

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

iv) How many pets **altogether**?

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

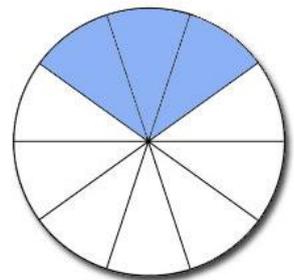
(15 marks)

11. a) i) What **fraction** is **shaded**?

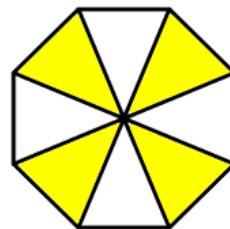
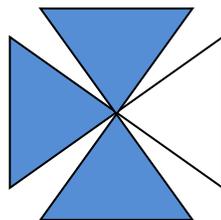
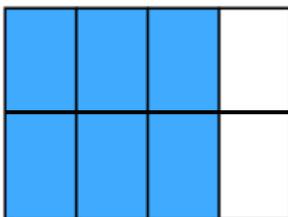
Ans: \_\_\_\_\_

ii) Write your answer to (i) as a **percentage**.

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



b) Two of the diagrams below are  $\frac{3}{4}$  **shaded**. Which are they?



(5 marks)

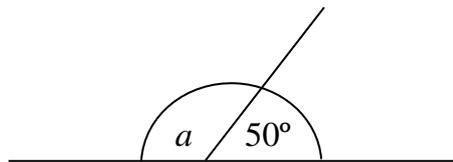
12. a) **Match:**

- |   |   |   |             |
|---|---|---|-------------|
| Angles on a <b>straight line</b> add up to      | ● | ● | $60^\circ$  |
| Angles in a <b>revolution</b> add up to         | ● | ● | $180^\circ$ |
| Each angle in an <b>equilateral triangle</b> is | ● | ● | $360^\circ$ |

b) i) **Fill in:**

$$a + 50^\circ = \underline{\hspace{2cm}}^\circ$$

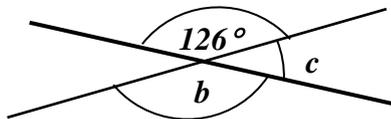
ii) Find the **value of angle a**.



*Diagram not drawn to scale.*

$$a = \underline{\hspace{2cm}}^\circ$$

iii) Find the **value of angle b** and the **value of angle c**.

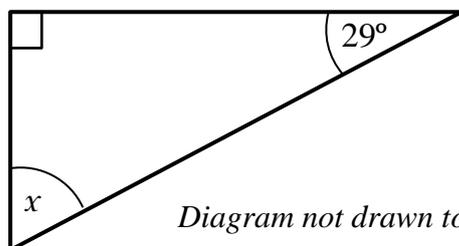


*Diagram not drawn to scale.*

$$b = \underline{\hspace{2cm}}^\circ$$

$$c = \underline{\hspace{2cm}}^\circ$$

c) Work out the value of angle  $x$ , giving **reasons** for your answer.



*Diagram not drawn to scale.*

$$x = \underline{\hspace{2cm}} \quad \text{Reason: } \underline{\hspace{10cm}}$$

(11 marks)

**END OF MAIN PAPER**