

# 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							

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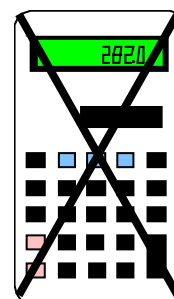
Name: \_\_\_\_\_

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)

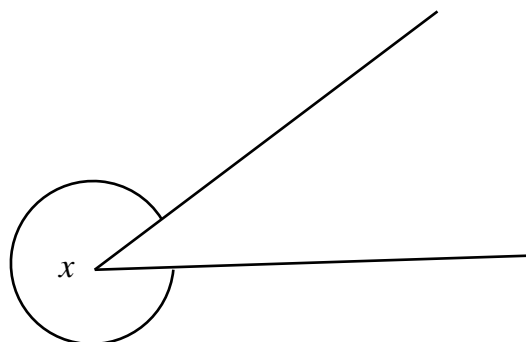
3. **Tick (✓)** the correct answer.

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

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

b) Angle  $x$  is:

- ☐ acute  
☐ obtuse  
☐ reflex



(2 marks)

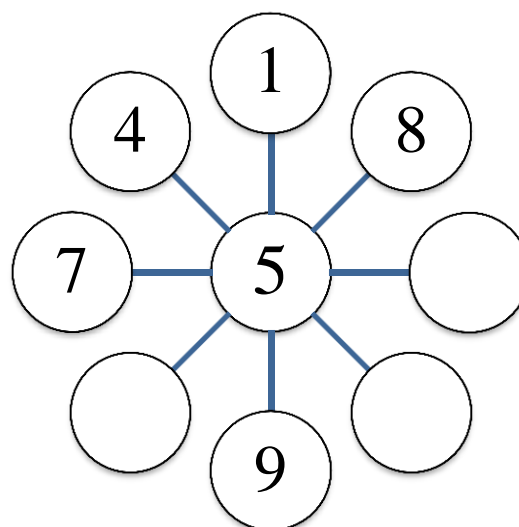
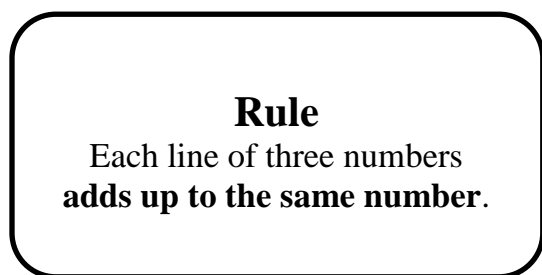
4. A packet of crisps weighs 40 grams. The company **increases** the weight by **50%**. What is the new weight?



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

(3 marks)

5. Look at this number puzzle.



- 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?

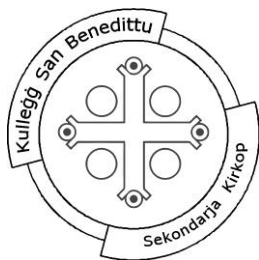
Ans: €\_\_\_\_\_

(6 marks)

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**END OF NON CALCULATOR PAPER**

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# 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															

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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.

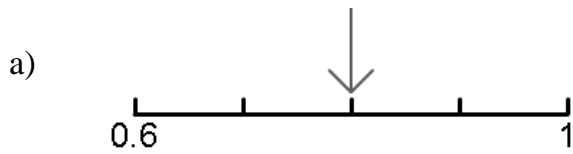
1. **Match.** One is done for you.

$\frac{3}{10}$	0.5	25%	$\frac{3}{4}$	100%	0.1
0.25	$\frac{1}{10}$	1	50%	0.75	30%

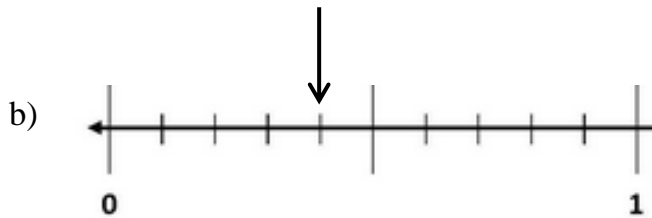
A line connects the box containing '0.5' in the top row to the box containing '50%' in the bottom row.

(5 marks)

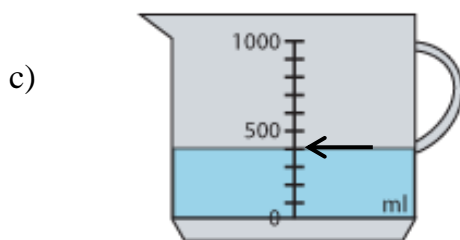
2. At what value is the arrow pointing?



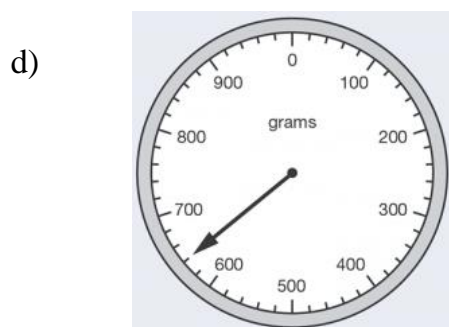
Ans: \_\_\_\_\_



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)

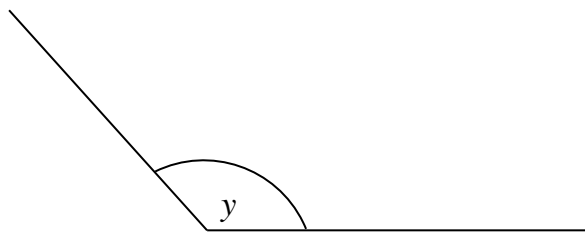
4. **Work out** the value of  $7t + s$  when  $t = 2$  and  $s = 10$ .

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 (✓) 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)  $\boxed{17} \rightarrow \boxed{+9} \rightarrow \boxed{\phantom{00}}$

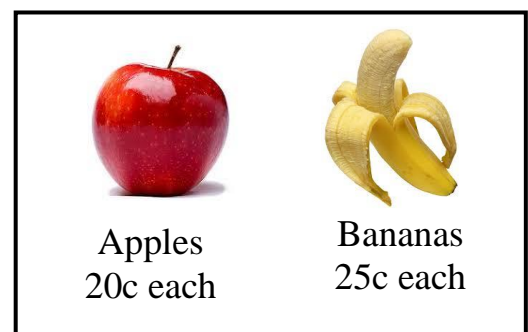
b)  $\boxed{8} \rightarrow \boxed{\phantom{00}} \rightarrow \boxed{48}$

c)  $\boxed{\phantom{00}} \rightarrow \boxed{\div 5} \rightarrow \boxed{7}$

(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.

$$\text{Cost (in cents)} = 20 \times \boxed{\phantom{00}} + 25 \times \boxed{\phantom{00}}$$

(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)

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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

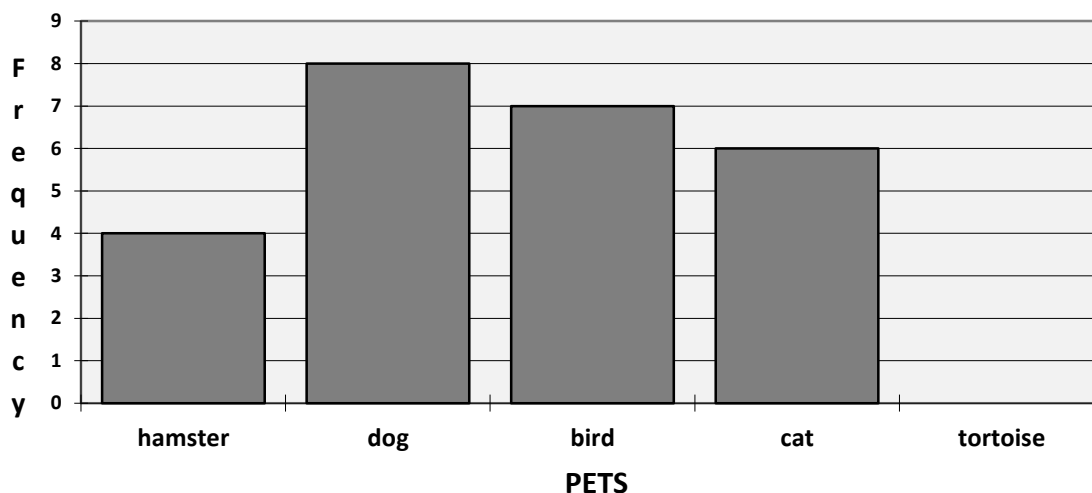
- ii) Find their **median** weight.

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

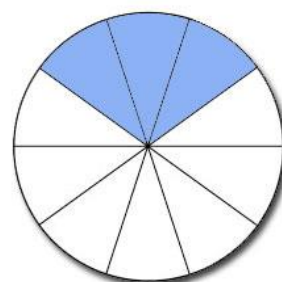
(15 marks)

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

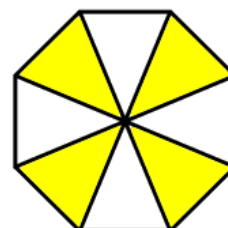
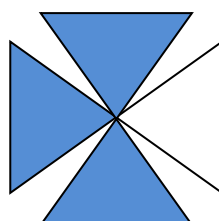
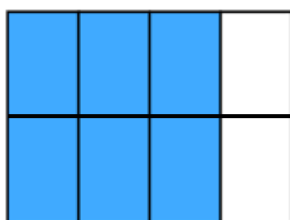
Ans: \_\_\_\_\_

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)

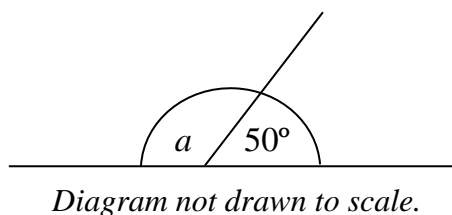
12. a) **Match:**

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:**

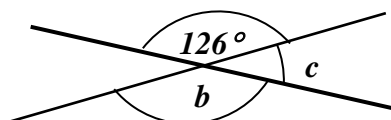
$$a + 50^\circ = \underline{\hspace{2cm}}$$

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



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

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

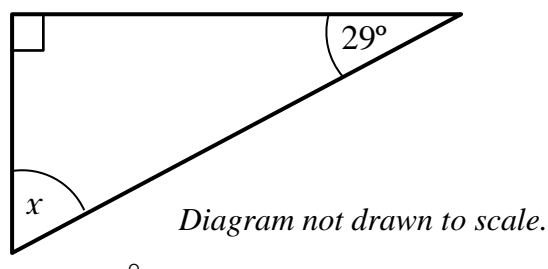


*Diagram not drawn to scale.*

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

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

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



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

(11 marks)

**END OF MAIN PAPER**