

KULLEGG SAN BENEDITTU Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2014/2015

Level 5 – 7

YEAR 8

MATHEMATICS Level 5 – 7

TIME: 30 mins

Non Calculator Paper

Question	1	2	3	4	5	6	7	8	9	NC
Max. Mark	3	2	2	2	2	3	4	3	4	25
Mark										

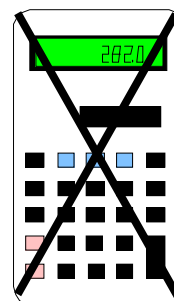
DO NOT WRITE ABOVE THIS LINE

NAME AND SURNAME: _____ 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.

9	15	5	2
41	25	27	20
11	26	7	33
17	42	8	13

From this set of numbers, choose:

- (a) A **multiple** of 5 _____
- (b) A **factor** of 10 _____
- (c) A **prime** number _____

(3 marks)

2. (a) Write in **figures**:

Two hundred twenty _____

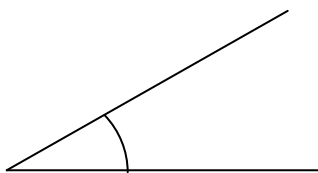
(b) Write in **words**:

944 _____

(2 marks)

3. Underline the correct answer.

(a)



This angle is

acute **obtuse** **reflex**

(b)



This angle is

acute **obtuse** **reflex**

(2 marks)

4. Fill in:

$$30\% = \frac{\begin{array}{c} \text{fraction} \\ \boxed{} \end{array}}{\boxed{}} = \begin{array}{c} \text{decimal} \\ \boxed{} \end{array}$$

(2 marks)

5. (a) Fill in

$$\boxed{} + 40 = 60$$

(b) Fill in

$$\boxed{} - 7 = 10$$

(2 marks)

6. Work out the following

(a) $10.2 \times 10 = \underline{\hspace{2cm}}$

(b) 7.52

$$\begin{array}{r} + 3.21 \\ \hline \end{array}$$

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

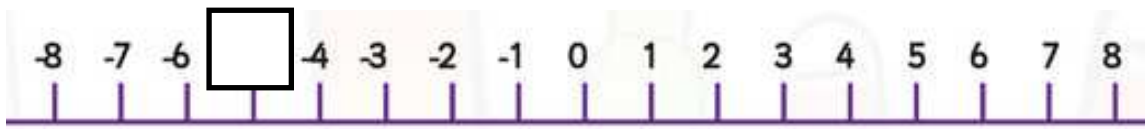
(c) 9.31

$$\begin{array}{r} - 6.2 \\ \hline \end{array}$$

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

(3 marks)

7. (a) Fill in the missing number on this number line.



(b) Using the number line above, work out

$$3 - 7 = \underline{\hspace{2cm}}$$

(c) In the afternoon the temperature in London was 7°C .
During the night the temperature went down by 10°C .
The new temperature is $\underline{\hspace{2cm}}$.

(4 marks)

8. Fill in the LOGO commands for the turtle to draw this shape.

PD

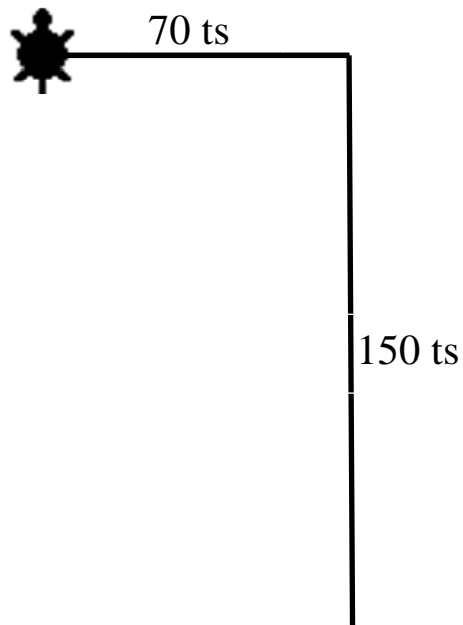
RT 90

FD $\underline{\hspace{2cm}}$

RT $\underline{\hspace{2cm}}$

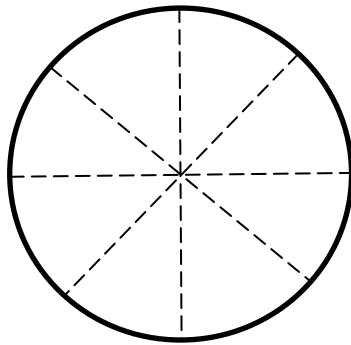
FD $\underline{\hspace{2cm}}$

PU



(3 marks)

9. (a) Shade $\frac{1}{2}$ of this shape.



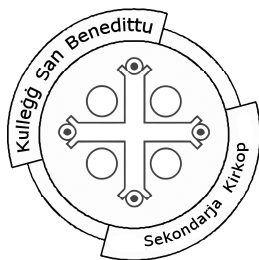
- (b) Work out the following:

$$(i) \quad \frac{2}{9} + \frac{3}{9} = \frac{\boxed{}}{\boxed{}}$$

$$(ii) \quad \frac{7}{8} - \frac{3}{8} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{2}$$

(4 marks)

END OF EXAM



KULLEGĠ SAN BENEDITTU

Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2014/2015

Level 5 - 7

YEAR 8

MATHEMATICS Level 5 - 7

TIME: 1hr 30mins

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	Main	NC	Global Mark
Max. Mark	11	8	9	5	5	3	4	9	7	5	2	7	75	25	100
Mark															

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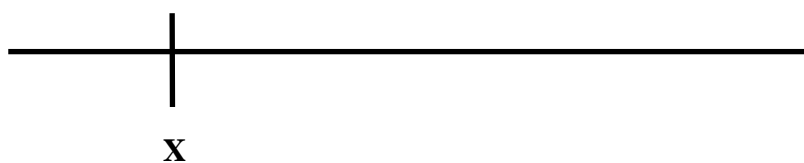
NAME AND SURNAME: _____ CLASS: _____

INSTRUCTIONS TO CANDIDATES:

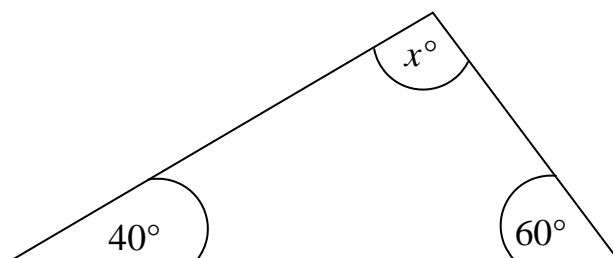
Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. (a) Use your protractor to **draw** and **label** an angle of 40° at point **X**.



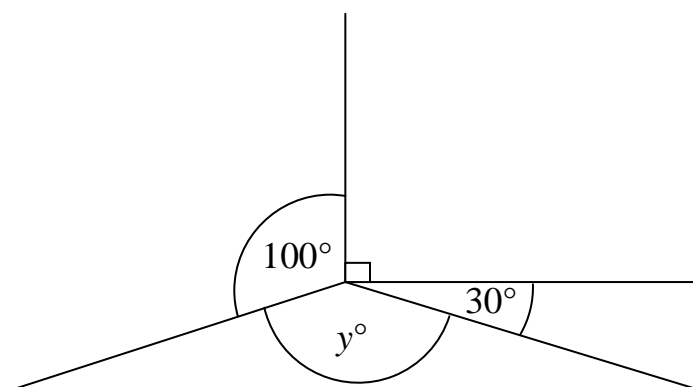
(b)



- (i) The angles in a triangle add up to _____.
- (ii) Find the value of x .

Ans _____

(c)

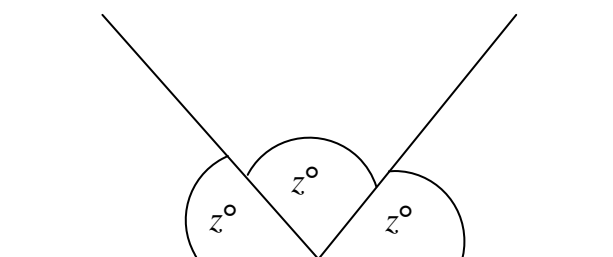


(i) Angles at a point add up to _____.

(ii) Find the value of y .

Ans _____

(d)



(i) The angles on a straight line add up to _____.

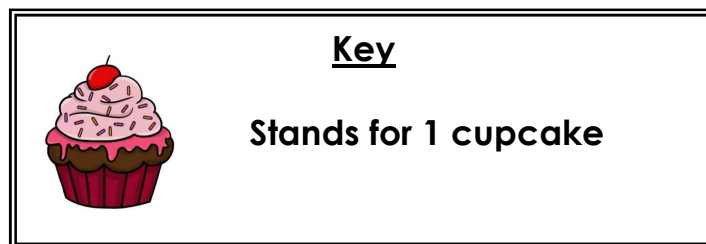
(ii) Find the value of z .

Ans _____

(11 marks)

2. (a) Tom counts the number of cupcakes sold at the school tuck shop during the week.

<u>Tuck Shop</u>		
<u>Day</u>	<u>Cupcakes Sold</u>	<u>Number of Cupcakes</u>
Monday	    	<div>5</div>
Tuesday	  	<div></div>
Wednesday	    	<div></div>
Thursday	 	<div></div>
Friday	      	<div></div>



- (i) Write the missing numbers in the table.

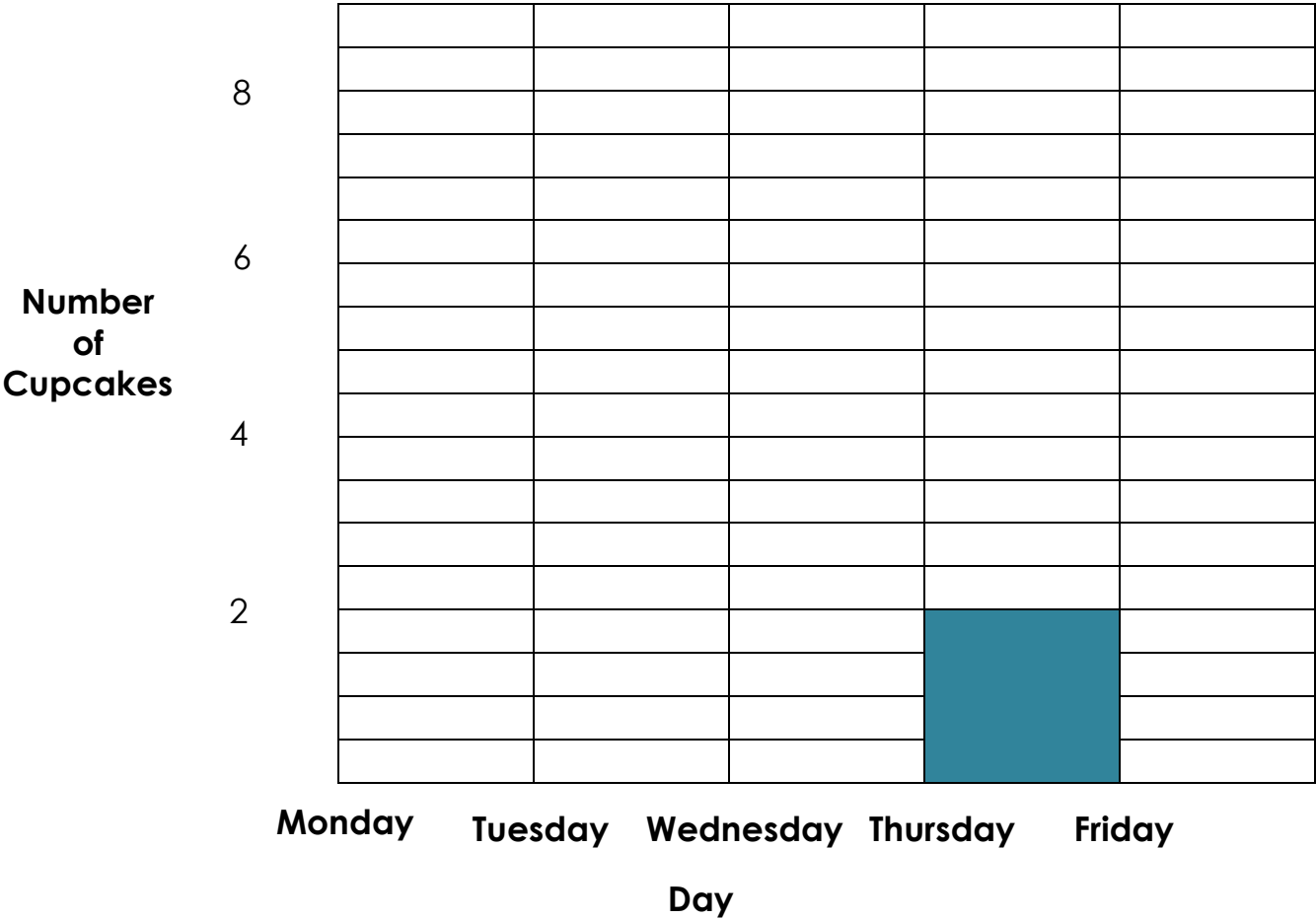
The first one has been done for you.

- (ii) On which day does the tuck shop sell the **most** cupcakes?

(b) Tom shows the sale of cupcakes in a bar chart.

Continue the bar chart.

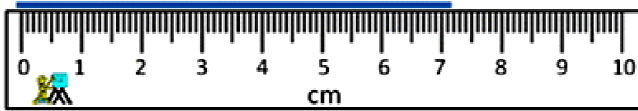
Thursday has been done for you.



(8 marks)

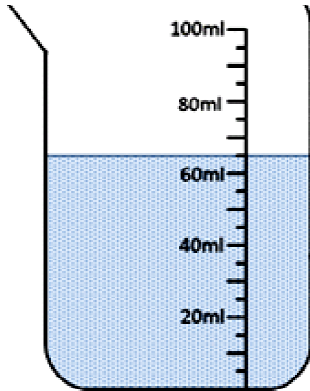
3. (a) Read the following scales:

i)



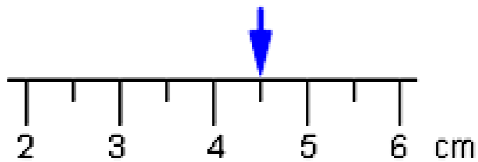
Ans: _____cm

ii)



Ans: _____ml

iii)



Ans: _____cm

(b) (i) Complete the list of the **multiples** of 2.

2	4	6		10	12			
---	---	---	--	----	----	--	--	--

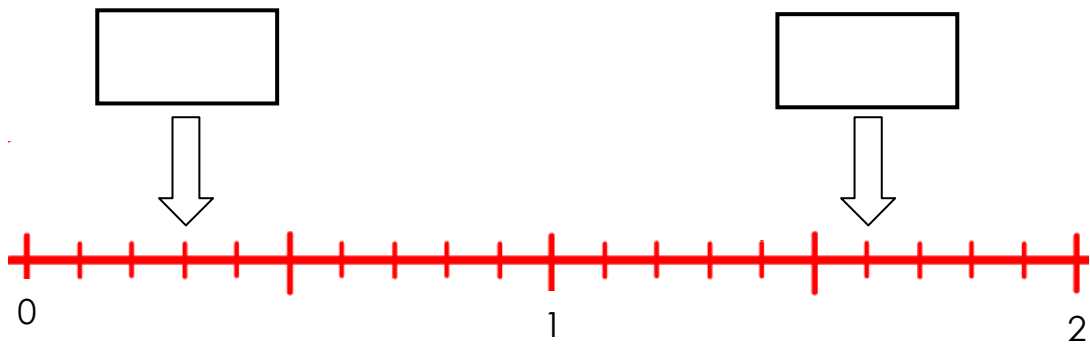
(ii) From the above numbers, write a number which is:

A **square** number _____

A **cube** number _____

(9 marks)

3. (b) Fill in the numbers that the arrows show.



(b) Put the following numbers in order, smallest first:

3.2 cm 3.6 cm 2.3 cm 6.3 cm 2 cm

(5 marks)

4. Work out the value of each expression when: $x = 3$, $y = 5$ and $z = 2$.

(a) $10 - y$

Ans _____

(b) $3z + x$

Ans _____

(5 marks)

5. Work out

$$(a) \quad \frac{2}{5} + \frac{3}{5} = \frac{\square}{5} = \square$$

$$(b) \quad \frac{3}{7} - \frac{1}{7} = \frac{2}{\square}$$

(3 marks)

6. A pair of shoes costs **€40**.

At a sale, there is a discount of **30%**.

(a) How much money does mum **save** on the pair of shoes?



Ans € _____

(b) Find the **new cost** of the pair of shoes.

Ans € _____

(4 marks)

7. The ages of **seven** teenagers attending music lessons are:

13 14 13 13 15 18 19



(a) Calculate:

(i) The mean age

Ans _____

(ii) The range

Ans _____

(iii) The mode

Ans _____

(b) (i) Put the ages of the teenagers in order, starting from the **youngest**.

(ii) The median is _____

(9 marks)

8. (a) Complete these equivalent fractions.

(i) $\frac{3}{8} = \frac{\boxed{}}{16}$

(ii) $\frac{15}{25} = \frac{3}{\boxed{}}$

(b) In a class of **20** students, 15 have brown eyes and 3 have blue eyes.

(i) What fraction of students have **blue** eyes?

Ans _____

(ii) What fraction of students have **brown** eyes?

Give your answer in its lowest terms.

Ans _____

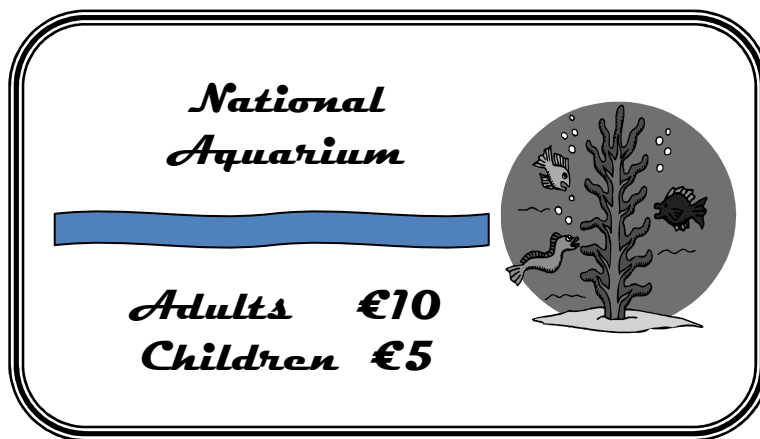
(iii) $\frac{1}{10}$ of the students in the class have green eyes.

How many students have **green** eyes?

Ans _____ students

(7 marks)

9. Look at the advert below.



(a) Complete this formula.

$$\text{Cost (€)} = \boxed{} \times \begin{array}{c} \text{Number} \\ \text{of} \\ \text{Adults} \end{array} + \boxed{} \times \begin{array}{c} \text{Number} \\ \text{of} \\ \text{Children} \end{array}$$

(b) How much does it cost for **3 adults** and **2 children** to visit the National Aquarium?

Ans € _____

(5 marks)

10. Use your calculator to work out the following.

(a) $-42 + 38 =$ _____

(b) $60 - (-10) =$ _____

(2 marks)

11. (a) **538** supporters attend a football match.

Round this number

(i) to the **nearest 10** _____

(ii) to the **nearest 100** _____



(b) Three parcels are weighed at the Post Office.

(i) Round their weights to **1 decimal place**.



(ii) Fill in:

The **heaviest** parcel is Parcel _____.

The **lightest** Parcel is Parcel _____.



(7 marks)

END OF EXAM