

KULLEĠĠ SAN BENEDITTU
Boys Secondary School, Kirkop

Levels
5-7

HALF-YEARLY EXAMS SCHOLASTIC YEAR 2012/2013

FORM2

MATHEMATICS Levels 5 - 7

TIME: 30 mins

Non Calculator Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	Total
Max. Mark	1	1	2	1	4	2	2	2	3	2	2	3	25
Mark													

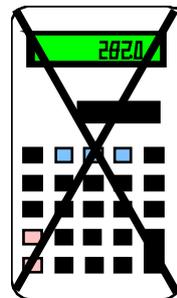
DO NOT WRITE ABOVE THIS LINE

NAME AND SURNAME: _____ **CLASS:** _____

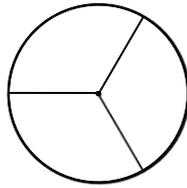
INSTRUCTIONS TO CANDIDATES:

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**.

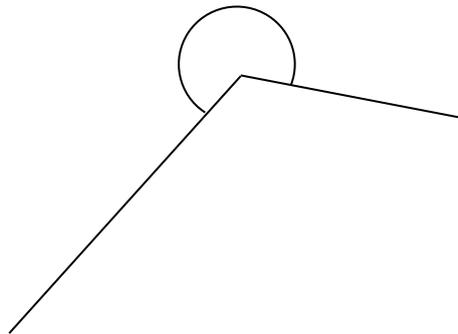


1. Shade **one third** of this shape.



(1 mark)

2. **Choose** the correct answer:

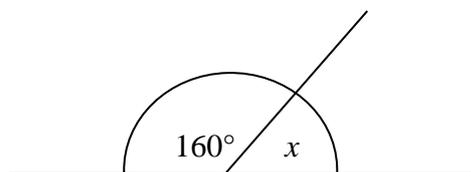


The marked angle is (a) Acute (b) Reflex (c) Obtuse

Ans _____

(1 mark)

3. Calculate angle x . Give a reason for your answer.



Ans _____

Reason _____

(2 marks)

4. **Round** 66 to the nearest 10.

Ans _____

(1 mark)

5. (a) Choose the correct answer.

16 is a **multiple** of (i) 5, (ii) 4, (iii) 3.

Ans _____

(b) Choose the correct answer.

4 is **factor** of (i) 12, (ii) 15, (iii) 22.

Ans _____

(c) Is 27 a **prime number**? Why?

Ans: YES/NO because _____

(4 marks)

6. **Work out:**

(a) $\frac{3}{10} + \frac{5}{10}$

Ans _____

(b) $\frac{3}{5} - \frac{1}{5}$

Ans _____

(2 marks)

7. Simplify $\frac{5}{20}$ to its **lowest terms**.

Ans _____

(2 marks)

8. Put these numbers in order, **smallest to largest** :

8 , 0 , 3 , -5

_____, _____, _____, _____.

(2 marks)

9. Work out :

(a) $5.3 + 2.6$

Ans _____

(b) $3.52 + 4.17$

Ans _____

(c) 4.02×10

Ans _____

(3 marks)

10. This pictogram shows the number of ice-creams sold. **Each** symbol stands for **10 ice-creams**.

Friday	
Saturday	
Sunday	

How many ice-creams were sold on Friday?

Ans _____

(b) How many ice-creams were sold **altogether**?

Ans _____

(2 marks)

11. What is n when $n - 20 = 30$?

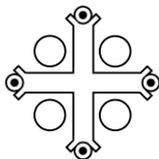
Ans _____

(2 marks)

12. There are 30 chocolates in a box and 20% of them are **white**.
How many **white chocolates** are there?

Ans _____

(3 marks)



KULLEĠĠ SAN BENEDITTU
Boys Secondary School, Kirkop

Levels
5-7

HALF-YEARLY EXAMINATIONS – FEBRUARY 2013

FORM 2

MATHEMATICS Level 5-7

TIME: 1hr 30 mins

MAIN PAPER

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Main	NC	Global Mark
Max. Mar	6	7	4	4	8	2	2	6	5	6	4	7	6	8	75	25	100
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 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. (a) Write 1824 correct to the **nearest 100**.

Ans _____

(b) Write down the first 3 **multiples** of 9.

Ans _____

(c) Write down two **factors** of 12.

Ans _____

(d) Find: 10^2

Ans _____

(e) Multiply: $2^2 \times 5$.

Ans _____

(6 marks)

2. (a) Continue the pattern:

(i)



(ii)



(b) Complete these two sequences:

2	4	6	8	10		
---	---	---	---	----	--	--

			30	35	40
--	--	--	----	----	----

(7 marks)

3. (a) Complete these equivalent fractions:

$$\frac{1}{4} = \frac{\square}{20}$$

- (b) 15 children are waiting for their school bus. 11 of them are **boys**.

What fraction of children are **boys**?

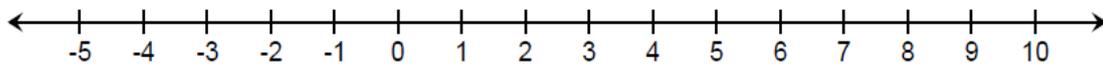
Ans _____

- (c) Mark has €36. He spends $\frac{1}{6}$ of it on a radio. How much does he spend on it?

Ans _____

(4 marks)

4. Use the **number line** below,



- (a) **Work out:**

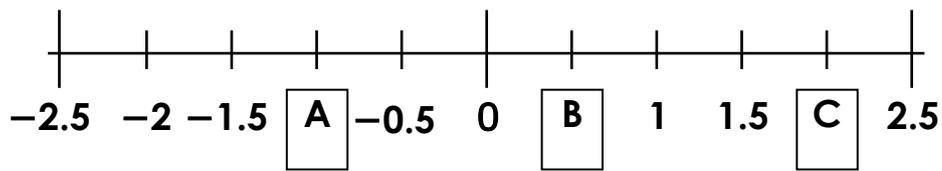
(i) $5 - 8 =$ _____

(ii) $7 - 4 - 5 + 6 =$ _____

- (b) In the morning the temperature in Berlin was -4°C . During the day it **went up** by 9°C . The new temperature is _____.

(4 marks)

5. (a) Write the number that the letter represents on the number line.



A = _____ B = _____ C = _____

- (b) Choose the **smallest number**. 0.7, 1.2, 0.85.

Ans: **Smallest Number:** _____

- (c) Choose the **largest number**. 3.1, 3, 3.9.

Ans: **Largest Number:** _____

- (c) Becky buys **4 pens** which cost **€1.50** each.

Work out:

- (i) the **total cost** of the 4 pens.

Ans _____

- (ii) the **change** from a €10 note.

Ans _____

(8 marks)

6.

$$3 - n, \quad n + 3, \quad n + 8.$$

In the above expressions $n = 2$.

- (a) Which of the expressions has its value less than 3?

Ans _____

- (b) Which of the expressions has its value greater than 8?

Ans _____

(2 marks)

7. **Solve:** $p + 3 = 5$

Ans _____

(2 marks)

8. (a) Write 28% as a

(i) **Fraction of 100:** _____

(ii) **Decimal:** _____

(b) Work out 60% of 5 metres.

Ans _____

(c) Peter lost 20 out of 125 points in a game. What **percentage** of the total points did Peter lose?

Ans _____

(6 marks)

9. Work out the value of the each expression if $a = 2$, $b = 3$ and $c = 5$

(a) $a + b$

Ans _____

(b) $3a + c$

Ans _____

(5 marks)

10. There are eleven houses in Orange Street. One day the postman delivered the following number of letters to them: 2, 3, 1, 0, 3, 0, 5, 1, 0, 2, 5.

Work out:

(a) the **mean**.

Ans _____

(b) the **median**.

Ans _____

(c) the **range**.

Ans _____

(d) the **mode**.

Ans _____

(6 marks)

11. A milkman has 99 bottles. He has to put them into boxes which hold 8 bottles each.

(a) How many **boxes** will he fill?

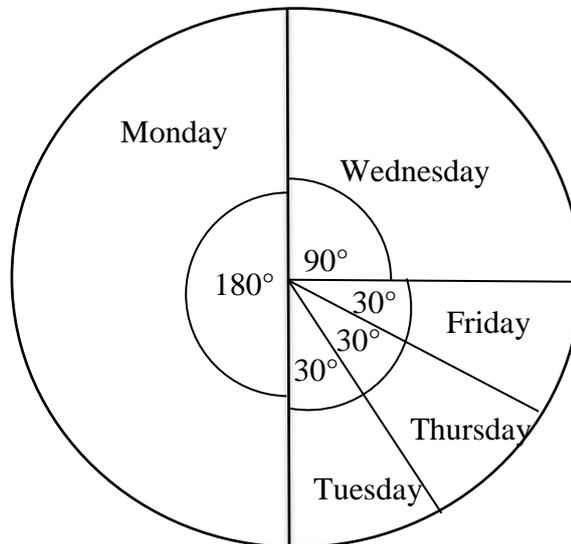
Ans _____

(b) How many **bottles** will be left out of the boxes?

Ans _____

(4 marks)

12. One week Mario sold **60 cars**. The pie chart shows how many cars he sold on each day. From the pie chart, find the **number** of cars sold on each day.



Monday: _____ cars

Tuesday: _____ cars

Wednesday: _____ cars

Thursday: _____ cars

Friday: _____ cars

(7 marks)

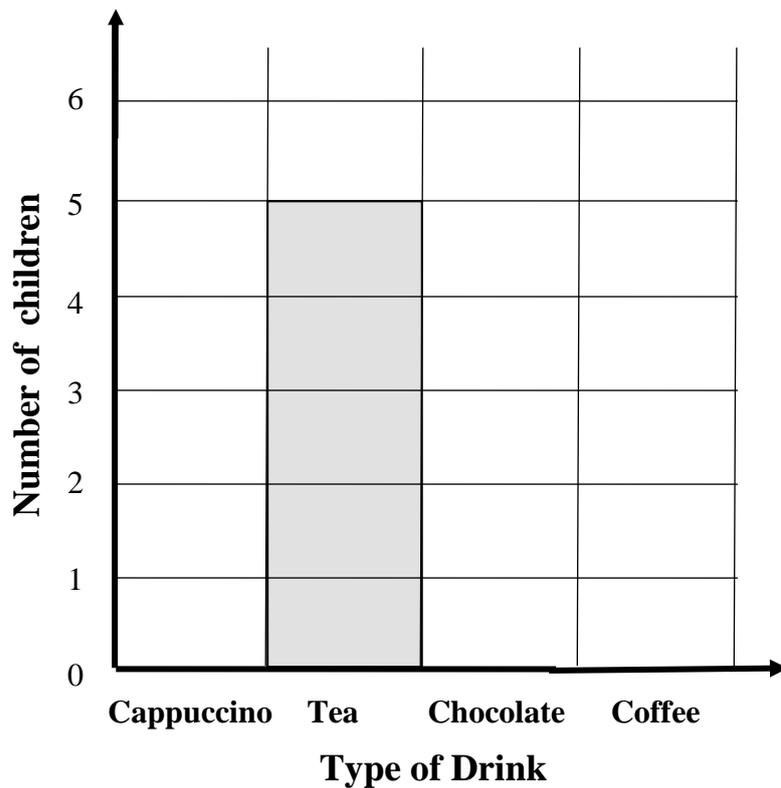
13. Fifteen children were asked what was their favourite drink from: tea, coffee, chocolate and cappuccino. Their answers were these:

tea coffee tea chocolate tea
 coffee chocolate coffee cappuccino chocolate
 cappuccino tea chocolate coffee tea

(a) Complete this frequency table

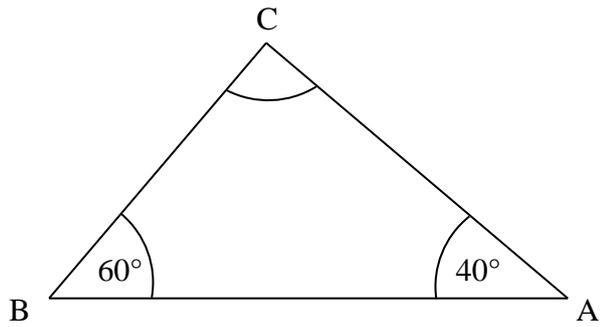
Drink	Total
Cappuccino	
Tea	5
Chocolates	
Coffee	
Total	15

(b) Complete the bar chart below:



(6 marks)

14. (a) Work out angle C.



Answer: angle C = _____

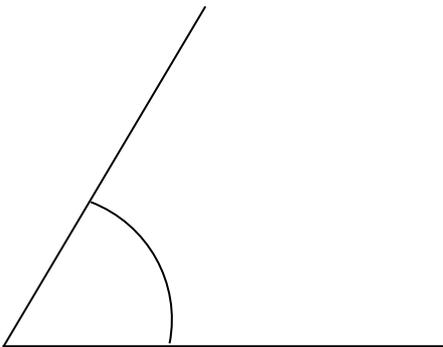
(b) Draw and mark an angle of

(i) 90°

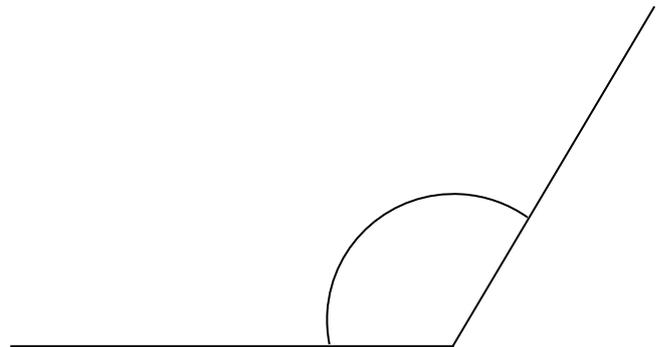
(ii) 120°



(c) Measure these angles.



(i) Ans _____



(ii) Ans _____

(8 marks)

END OF PAPER