KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

Levels 5-6

HALF-YEARLY EXAMS SCHOLASTIC YEAR 2012/2013

FORM 2 **MATHEMATICS** **Levels 5 - 6** **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													

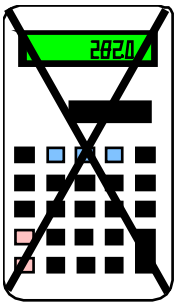
DO NOT WRITE ABOVE THIS LINE

NAME AND SURNAME: _____ CLASS:_____

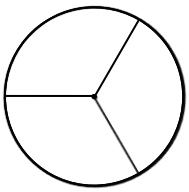
<u>INSTRUCTIONS TO CANDIDATES</u>:

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)

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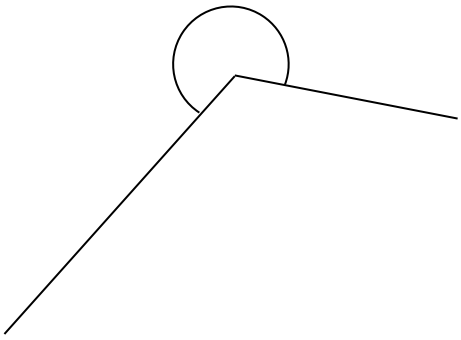
2. **Choose** the correct answer:



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

Ans _____

(1 mark)

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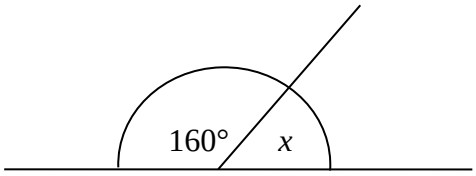
3. Calculate angle ***x.*** Show your working.



Ans _____

(2 marks)

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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.

3 is **factor** of (i) 12, (ii) 10, (iii) 22.

Ans _____

(c) Is 9 a **prime number**? Why?

Ans: YES/NO because_____

(4 marks)

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6. **Work out:**

(a) $\frac{3}{10} + \frac{4}{10}$

Ans _____

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

Ans _____

(2 marks)

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7. Fill in:

$\frac{1}{2} = \frac{\quad}{10}$

Ans _____

(2 marks)

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

8 , 0 , 3 , -5

_____, _____, _____, _____.

(2 marks)

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9. Work out :

(a) 5.3 + 2.6

Ans _____

(b) 3.5 – 2.1

Ans _____

(c) 4.2 × 10

Ans _____

(3 marks)

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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)

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11. What is $\boldsymbol{n}$ when $\boldsymbol{n} - 20 = 30$?

Ans _____

(2 marks)

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12. There are 30 chocolates in a box and 50% of them are **white**.

How many **white chocolates** are there?

Ans _____

(3 marks)

KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

Levels 5-6

HALF-YEARLY EXAMS SCHOLASTIC YEAR 2012/2013

FORM 2 **MATHEMATICS Level 5-6** **TIME: 1hr**

MAIN PAPER

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Main	NC	Global Mark
Max. Mar	6	7	6	4	9	4	2	6	5	6	6	6	8	75	25	100
Mark																

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NAME AND SURNAME: _____ CLASS:_____

<u>INSTRUCTIONS TO CANDIDATES</u>:

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) From the numbers in the list

1 ,2, 3,4 ,5, 6, 7, 8, 9

(a) Write down an even number.

Ans _____

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

Ans _____

(c) Write down **all** factors of 8.

Ans _____

(d) Write down a square number.

Ans _____

(e) Write down a prime number.

Ans _____

(6 marks)

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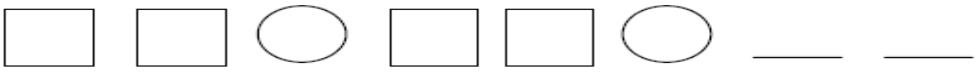
2. (a) Continue the pattern:

(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**?

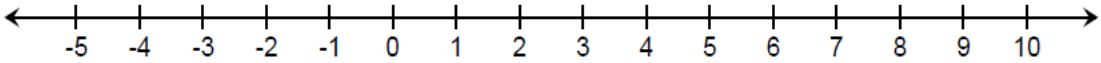
Ans _____

(c) Mark has €36. He spends $\frac{1}{3}$ of it on a radio. How much does he spend on it?

Ans _____

(6 marks)

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



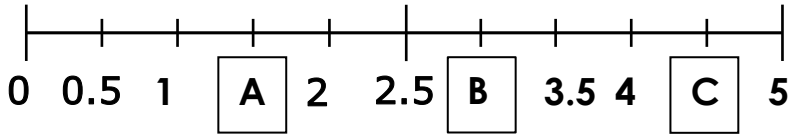
Work out:

(a) 5 – 8 = _____

(b) – 4 + 5 –2 = _____

(4 marks)

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



A = _____ B = _____ C = _____

(b) Which is the **smallest number**? 0.7, 1.2, 0.8.

Ans: **Smallest Number:** _____

(c) Which is the **largest number**: 3.1, 3, 3.9.

Ans: **Largest Number:** _____

(d) 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 _____

(9 marks)

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6. If $n = 2$

(a) Work out $3 - n$

Ans _____

(b) Work out $n - 3$

Ans _____

(4 marks)

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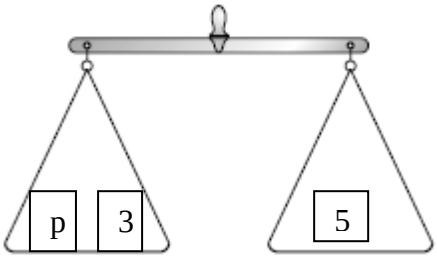
7. Find the value of p:



Ans _____

(2 marks)

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8. (a) Write 28% as a

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

(b) Work out 60% of 500cm.

Ans _____

(6 marks)

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9. Fill in:

(a) 22 → + 6 → ☐

(b) ☐ ← −5 ← 15

(5 marks)

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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 _____

(6 marks)

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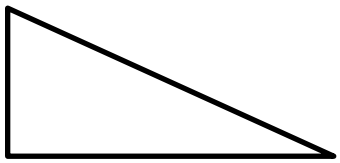
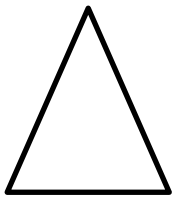
11. Label these shapes using this list:

Isosceles triangle, **rectangle,** **scalene right-angled triangle,**





_____ _____ _____

(6 marks)

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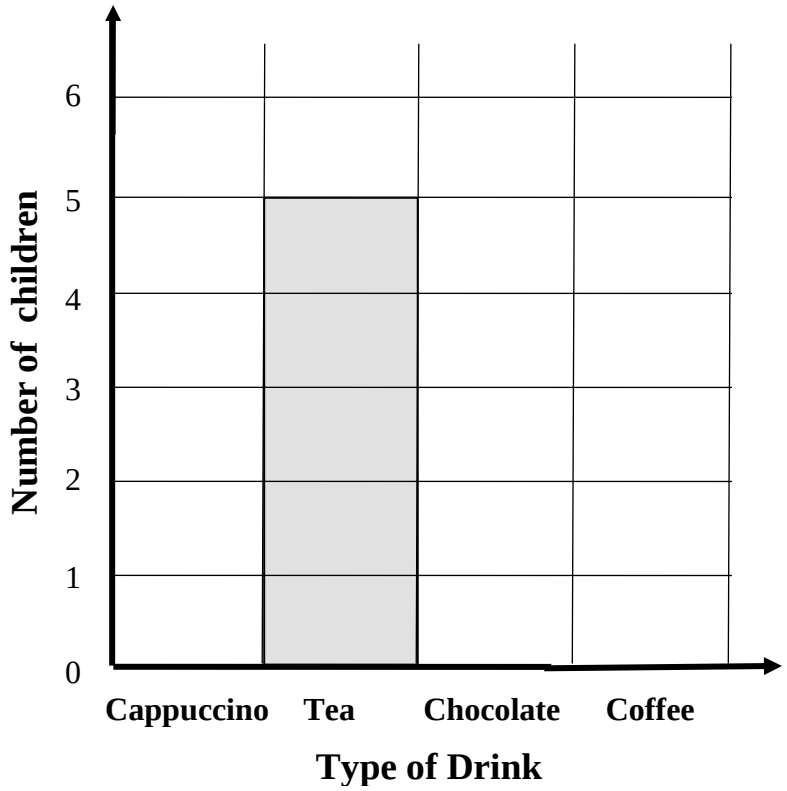
12. Fifteen children were asked what their favourite drink was from: tea, coffee, chocolate and cappuccino. Their answers were these:

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

(a) Complete this frequency table

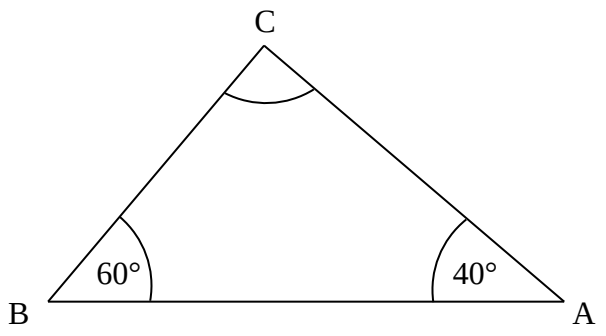
Drink	**Total**
Cappuccino	
Tea	**5**
Chocolates	
Coffee	
Total	**15**

(b) Complete the bar chart below:



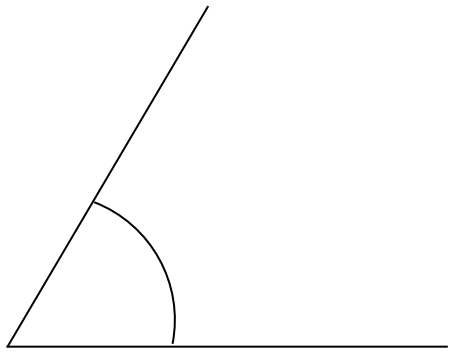
(6 marks)

13. (a) Work out angle C.

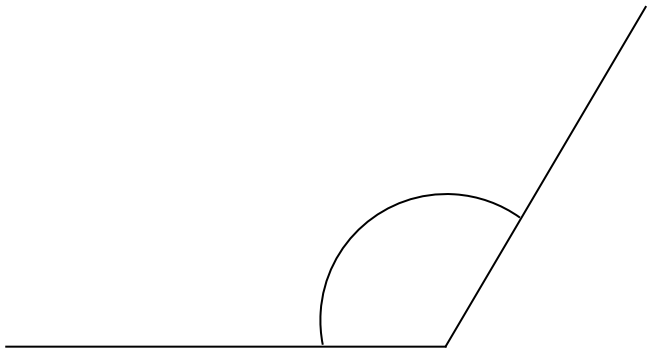


Answer: angle C = _____

(b) Measure these angles.



(i) Ans _____



(ii) Ans _____

(8 marks)

END OF PAPER