

**KULLEĠĠ SAN BENEDITTU**  
**Boys Secondary School, Kirkop**

**Levels**

**5-7**

**HALF-YEARLY EXAMINATIONS – FEBRUARY 2014**

**FORM 2**

**MATHEMATICS**

**TIME: 1 h 30mins**

**Levels 5-7**

**NAME & SURNAME:** \_\_\_\_\_ **CLASS:** \_\_\_\_\_

**Main paper**

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

**DO NOT WRITE ABOVE THIS LINE**

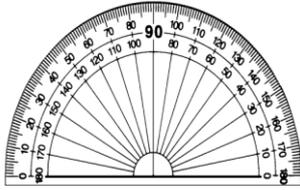
**INSTRUCTIONS TO CANDIDATES:**

**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.

protractor



72c

pencil



65c

file



€1.85

(a) Which item costs the **most** ?

Answer \_\_\_\_\_

(b) Round €1.85 to the nearest euro.

Answer \_\_\_\_\_

(c) Mary buys a protractor and 2 pencils. Work out **the cost**.

Protractor

+

2 pencils

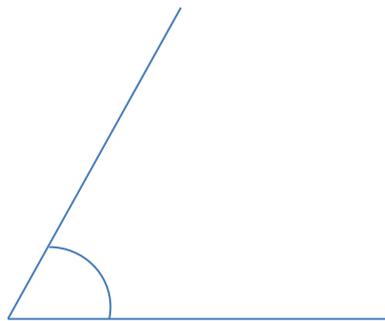
\_\_\_\_\_

Answer

\_\_\_\_\_

(5 marks)

2. (a) **Measure** the following angle.

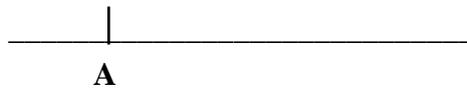


Answer \_\_\_\_\_

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

**Levels**  
**5-7**

(b) **Draw** an angle of  $110^\circ$  at point **A**.



(c) **Underline** the correct word :

An angle of  $110^\circ$  is (**an acute**, **an obtuse**, **a reflex**) angle.

(3 marks)

3. (a) **Draw** the next two shapes to continue this pattern.



(b) Fill in :

i) 4, 8, 12, \_\_\_\_\_, 20, \_\_\_\_\_

ii) 100, 95, 90, \_\_\_\_\_, 80, \_\_\_\_\_

(6 marks)

4. If  $a = 5$  and  $c = 8$ , work out the **value** of :

(a)  $a + c = \square$  Answer.

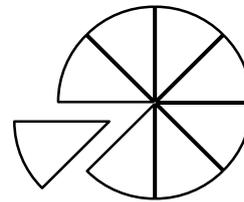
(b)  $a - c = \square$  Answer.

(c)  $2c - 4 = \square$  Answer.

(4 marks)

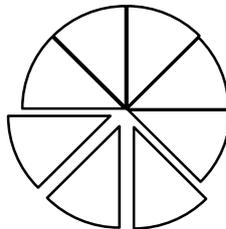
5. (a) Mary eats **1** slice of the pizza.

What **fraction** of the pizza does she eat?



Answer \_\_\_\_\_.

(b) John eats  $\frac{3}{8}$  of the pizza. Work out the **fraction** of the pizza do Mary and John eat **altogether**?



Answer \_\_\_\_\_.

(c) What **percentage** of the pizza is **left**?

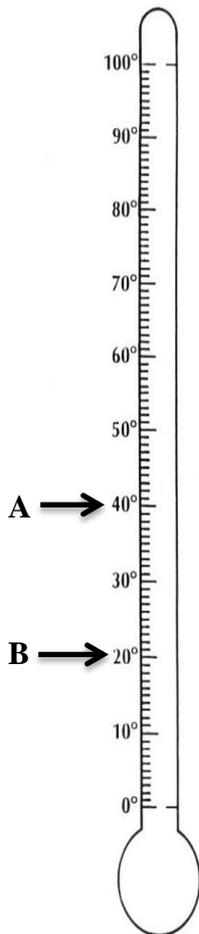
Answer \_\_\_\_\_.

(4 marks)

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

**Levels  
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6. This is a **thermometer** scale:



(a) Arrow **A** is at \_\_\_\_\_ °C. Answer

(b) Arrow **B** is at \_\_\_\_\_ °C. Answer

(c) Work out the **difference** between temperature **A** and temperature **B**.

Answer \_\_\_\_\_ °C.

(3 marks)

7. a) In the table below, **circle** the **multiples** of 4.

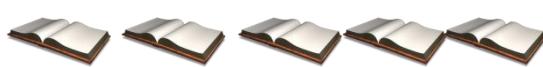
10	11	12	13	14	15	16	17	18	19	20
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b) **Fill** in to complete all the **factors** of 12.

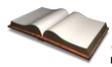
1, \_\_\_\_\_, 3, 4, \_\_\_\_\_, \_\_\_\_\_.

(6 marks)

8. (a)

<u>Book Shop</u>		
<u>Day</u>	<u>Books Sold</u>	<u>Number of Books</u>
Wednesday		<input type="text" value="20"/>
Thursday		<input type="text"/>
Friday		<input type="text"/>
Saturday		<input type="text"/>

Key

 Stands for 10 books

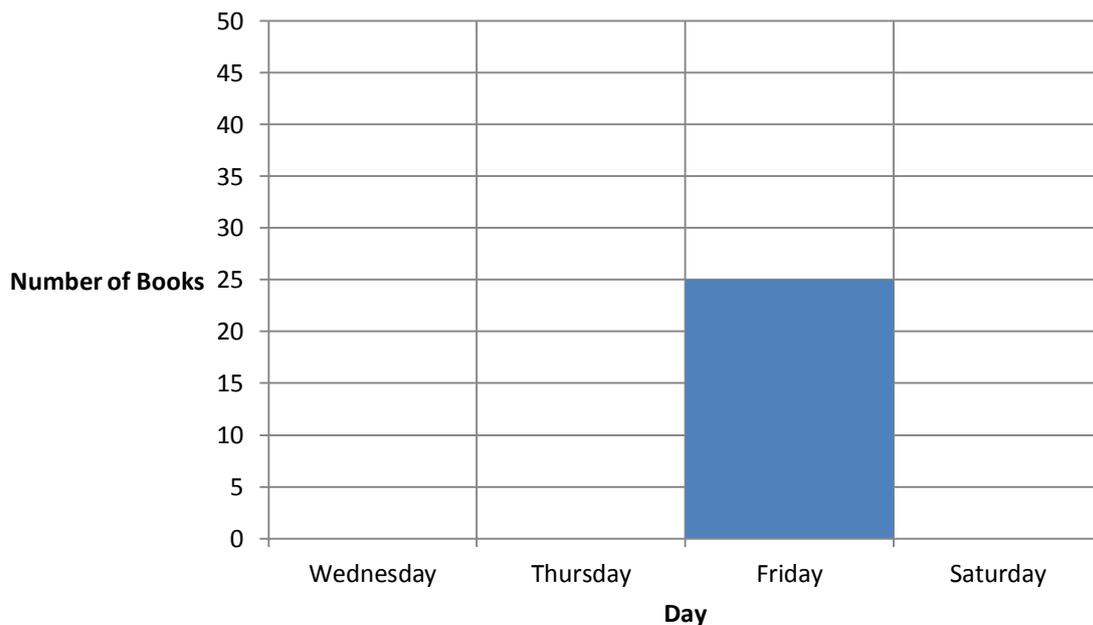
Peter works in a bookshop. The pictogram shows the number of books sold.

- i) Write the **missing** numbers in the table.
- ii) On which **day** did Peter sell the lowest number of books?

Answer \_\_\_\_\_

(b) Peter showed his book sales in the bar chart below.

Continue the bar chart.



(6 marks)

9. (a) Fill in the blanks:

$$\boxed{80\%} = \frac{80}{\square} = \frac{8}{\square} = \frac{\square}{\square}$$

(b)



A shirt is marked €30. During a sale, the shop offers a 10% off the marked price.

i) How much is saved on the shirt's price?

Answer € \_\_\_\_\_

ii) Calculate the sale price.

Answer € \_\_\_\_\_

(7 marks)

10. (a) The following are the Science test marks of 4 students.

**71, 65, 54, 76.**

i) The **total** =  $71 + 65 + 54 + 76 =$  \_\_\_\_\_ Answer

ii) There are \_\_\_\_\_ test marks.

iii) Work out the **mean**.

Answer \_\_\_\_\_

(b) The following are the winter temperatures during one week in Malta.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18°C	10°C	17°C	18°C	15°C	16°C	18°C

i) Work out the **range**.

Answer \_\_\_\_\_

ii) Which was the **most common** temperature during this week?

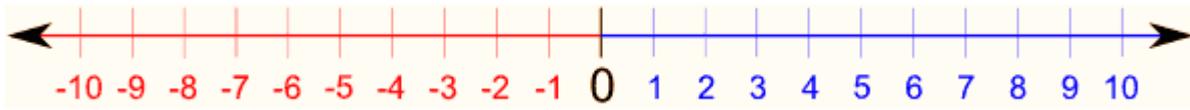
Answer \_\_\_\_\_

iii) The **most common** temperature is called the (**mean, mode, median**).

Answer \_\_\_\_\_

(8 marks)

11. Use the number line below.



(a) Write down as a **negative** or a **positive** number

i) A temperature of  $5^{\circ}\text{C}$  below zero.

Answer \_\_\_\_\_  $^{\circ}\text{C}$ .

ii) Two floors above ground level.

Answer \_\_\_\_\_.

(b) Put these numbers in order of size, **smallest first**

**8, 0, -2, 5.**

Answer \_\_\_\_\_

(c) i) In Dublin the temperature was  $-2^{\circ}\text{C}$ . During the day the temperature rose by  $5^{\circ}\text{C}$ . Then, the temperature was \_\_\_\_\_  $^{\circ}\text{C}$ .

ii) In London, the temperature was  $4^{\circ}\text{C}$  and during the night it fell by  $6^{\circ}\text{C}$ . Write down the temperature during the night.

Answer \_\_\_\_\_  $^{\circ}\text{C}$ .

(8 marks)

12. A class was asked about their favourite food. Here are the results.

pizza	burger	pizza	salad	fish
fish	salad	burger	pizza	pizza
burger	chicken	salad	chicken	pizza
pizza	fish	chicken	fish	chicken

(a) **Fill** in the table:-

<b>Food</b>	<b>Tally</b>	<b>Frequency</b>
Pizza		
Burger		
Salad		3
Fish		
Chicken		

(b) How many **students** are there in the class?

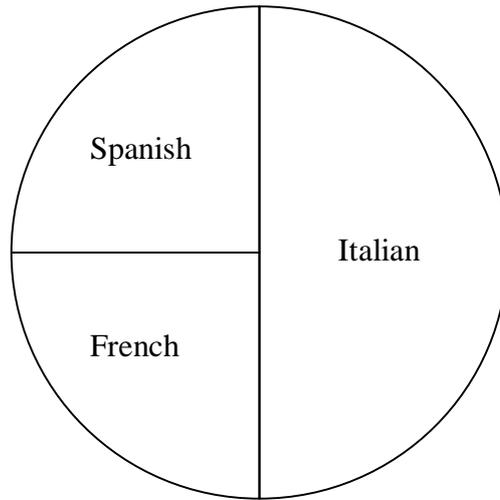
Answer \_\_\_\_\_

(c) One salad costs €5.50. Work out the cost of 3 salads

Answer € \_\_\_\_\_

(8 marks)

13. The Pie Chart shows the language chosen by **60** students.



(a) What **fraction** of the students chose **Italian**?

Answer \_\_\_\_\_

(b) How **many** students chose **Italian**?

Answer \_\_\_\_\_

(c) What **fraction** of the students chose **Spanish**?

Answer \_\_\_\_\_

(d) Find the **number** of students who learn **Spanish**.

Answer \_\_\_\_\_

(e) Which **two** subjects were equally **chosen**?

Answer \_\_\_\_\_

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(7 marks)

**END OF EXAM**