

KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

Levels

5-7

HALF-YEARLY EXAMINATIONS – FEBRUARY 2014

FORM 2

MATHEMATICS

TIME: 30mins

Levels 5-7

NAME & SURNAME: _____ CLASS: _____

Non Calculator Paper

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

DO NOT WRITE ABOVE THIS LINE

- Answer all the questions.
- This paper carries a total of 25 marks.
- Calculators and protractors are not allowed.

1 (a) Put these numbers in order, **smallest first**:-

25, 20, 23, 18, 15

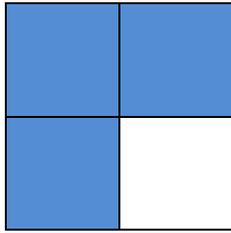
Ans _____

(b) What is the **median** of this set of numbers?

Ans _____

(3 marks)

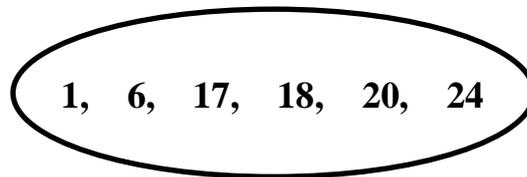
2. What fraction of the shape is shaded?



Ans _____

(1 mark)

3. From the set of numbers given below choose:-



(a) The **largest even** number.

Ans _____

(b) A **multiple** of 5.

Ans _____

(c) A **factor** of 12.

Ans _____

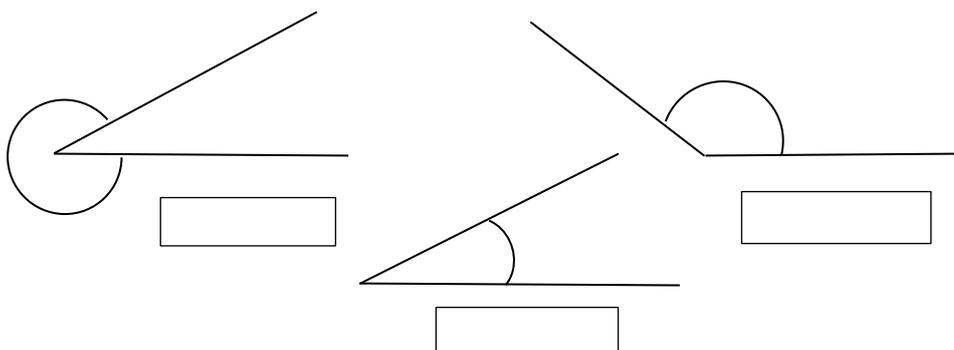
(3 marks)

4. Find the value of:- $18 \times (6 + 4) =$

Ans _____

(1 mark)

5. Fill in the boxes using the correct word:- (**acute**, **reflex**, **obtuse**)



(2 marks)

6. Work out:-

(a) $\frac{1}{4}$ of €16 =

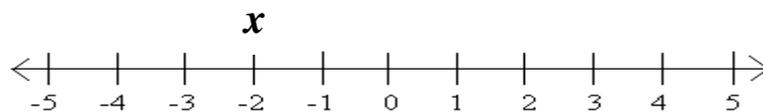
Ans _____

(b) 50% of 200g =

Ans _____

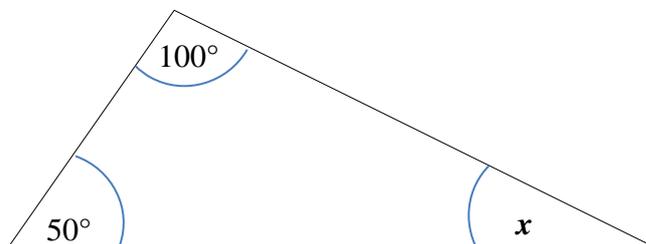
(3 marks)

7. Given that $x = -2$. Work out the value of: $x + 6 =$



(1 mark)

8. Calculate angle x and give a reason for your answer.



Ans _____ $^\circ$

Reason _____

(3 marks)

9. Work out:-

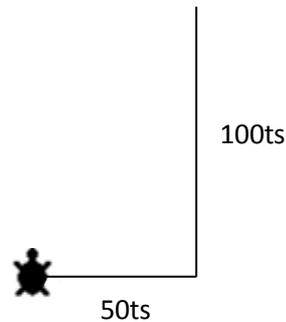
$$(a) \frac{5}{7} - \frac{1}{7} = \frac{\boxed{}}{\boxed{}}$$

$$(b) \frac{5}{6} - \frac{1}{6} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{3}$$

(3 marks)

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

pd
rt 90
fd _____
lt _____
fd 100
pu home



(2 marks)

11. Work out :-

a) $8.5 \text{ cm} +$

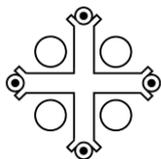
3.2 cm

b) $9.72 -$

0.4

c) $14.2 \div 10 =$

(3 marks)



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Boys Secondary School, Kirkop

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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

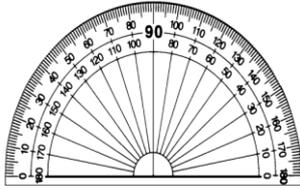
INSTRUCTIONS TO CANDIDATES:

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

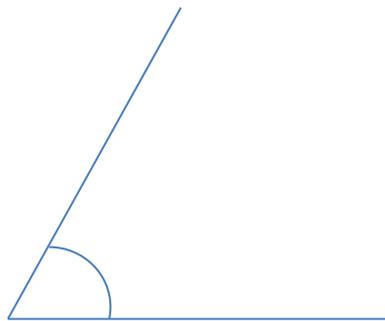
+

2 pencils

Answer

(5 marks)

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

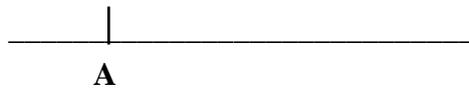


Answer _____

Name : _____

Levels
5-7

(b) **Draw** an angle of 110° at point **A**.



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

An angle of 110° 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.

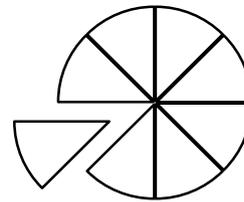
(b) $a - c = \square$ Answer.

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

(4 marks)

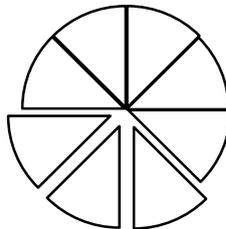
5. (a) Mary eats **1** slice of the pizza.

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**?

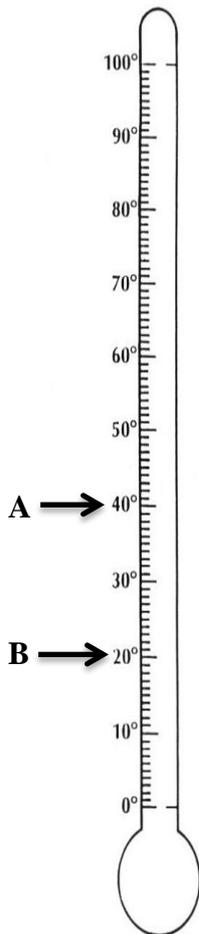
Answer _____

(4 marks)

Name : _____

**Levels
5-6-7**

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.

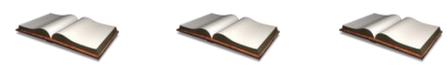
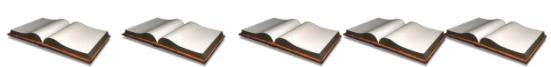
10	11	12	13	14	15	16	17	18	19	20
----	----	----	----	----	----	----	----	----	----	----

b) **Fill** in to complete all the **factors** of 12.

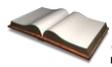
1, _____, 3, 4, _____, _____.

(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

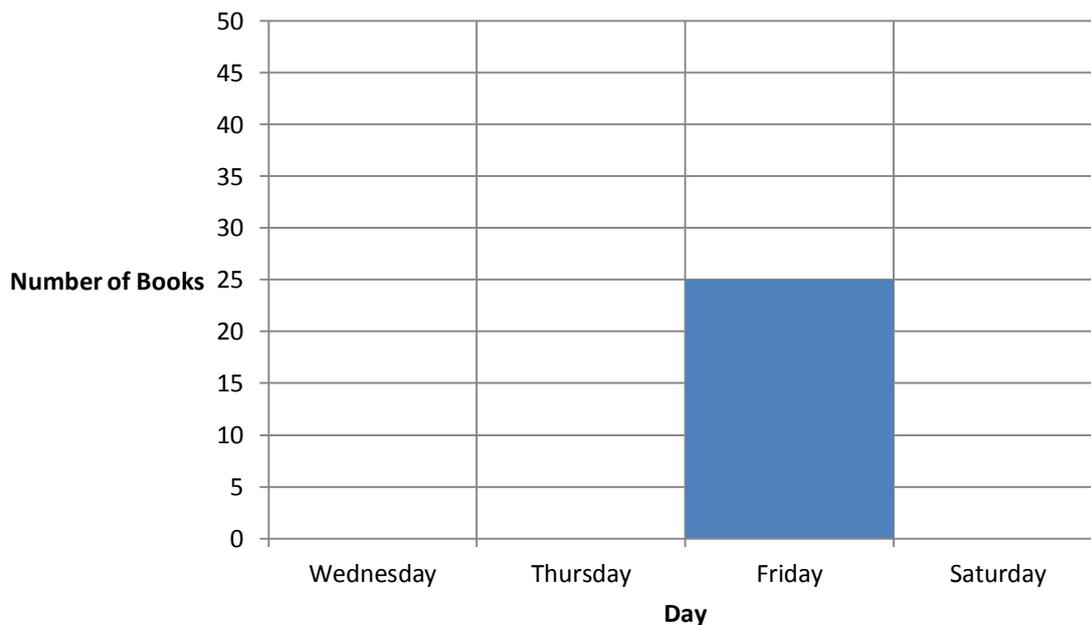
Peter works in a bookshop. The pictogram shows the number of books sold.

- 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?

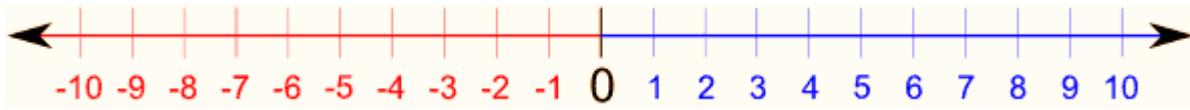
Answer _____

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°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°C . During the day the temperature rose by 5°C . Then, the temperature was _____ $^{\circ}\text{C}$.

ii) In London, the temperature was 4°C and during the night it fell by 6°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:-

Food	Tally	Frequency
Pizza		
Burger		
Salad		3
Fish		
Chicken		

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

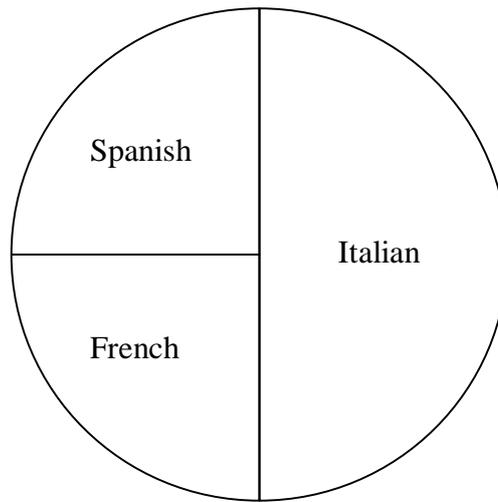
Answer _____

(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 _____

(7 marks)

END OF EXAM