SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010
Directorate for Quality and Standards in Education Educational Assessment Unit

D
FORM 2
MATHEMATICS SCHEME C
TIME: 30 minutes Non-Calculator Paper

Name: $\qquad$ Class: $\qquad$

| Question |  |  |  |  |  |  |  |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mark | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total |
|  |  |  |  |  |  |  |  |  |  |  |  |

## Instructions to Candidates

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

1. Work out the following:
a) $25+31=$
b) $27-14=$
C) $220+104=$

2 Complete:
a) $34+\square=80$
b) $78-\square=51$

3 Arrange these numbers in ascending order (smallest first):
23,
2.93,
18,
20.9
$\qquad$
$\qquad$


4 How many degrees are there in 1 right angle?


5 Shade in the amount shown under each rectangle:

$\frac{1}{8}$

$\frac{3}{4}$

$25 \%$

6 Fill in the boxes below by choosing the correct word from:
East (E) West (W) South-east (SE)


7 Work out the mean (average) of these numbers:
7. 10
9.
6

8 Calculate the perimeter of this triangle.

Perimeter =
$\qquad$ cm (2 marks)

9 Calculate the area of this rectangle.


Area $=$ $\qquad$ $\mathrm{cm}^{2}$
(2 marks)

10 Complete:
a) 13,16 , $\qquad$ ,

22, $\qquad$ .
b)

10, 8 , $\qquad$ ,
4. 2, $\qquad$ , -2 .

## End of Paper

## SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education Educational Assessment Unit

FORM 2
MATHEMATICS SCHEME D Main Paper

Question \begin{tabular}{|l|l|l|l|l|l|l|l|l|l|l|l|l||c|c||c|}

\hline 1 \& 2 \& 3 \& 4 \& 5 \& 6 \& 7 \& 8 \& 9 \& 10 \& 11 \& 12 \& 13 \& | Total |
| :---: |
| Main | \& | Non |
| :---: |
| Calculator | \& | Global |
| :---: |
| Mark | <br>

\hline \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline
\end{tabular}

DO NOT WRITE ABOVE THIS LINE

Name: $\qquad$ Class: $\qquad$

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

1 Use your calculator to work out :
a) $197.4+152.6=$
b) $9+8.5=$
c) $290 \div 20=$

2 Use a ruler and a protractor to draw triangle ABC accurately. Measure the length of AC.
$A C=$ $\qquad$ cm


3 The turtle draws a square of side 60 turtle steps (ts).
a) What is the total distance travelled by the turtle?

$\qquad$
ts
b) Fill in the blanks to draw the square:

PD Repeat $\qquad$ [ FD $\qquad$ RT $\qquad$ ]

4 The Gozo ferry leaves Gozo at 9 o' clock at night. The trip to Ċirkewwa takes 25 minutes.
Answer the following questions by underlining the correct answer:
a) The ferry leaves Gozo at (9 a.m., 6:09 p.m., 9 p.m.)

b) The ferry arrives at Cirkewwa at (9:25 a.m., 6:34 p.m., 9:25 p.m.)
c) On the 24 -hour clock, we write 9 o' clock at night as (0900; 2100; 3300)

5 Draw a circle centre A, with radius 3.5 cm .
On your circle, draw and mark a radius and a diameter.
Measure the length of the diameter.

diameter $=$ $\qquad$ cm

Name: $\qquad$ Class: $\qquad$

6 On the grid below plot and label the following points:
A (0, 1)
B $(3,1)$
$C(5,4)$
D $(0,7)$

Join $A$ to $B, B$ to $C$, and $C$ to $D$.


Use the $y$ axis as the mirror line and draw the image of shape $A B C D$.

7 John wants to buy a football which is marked $€ 20$. His father pays $10 \%$ of the price. John pays the rest.
a) What is $10 \%$ of $€ 20$ ?

## $€$

$\qquad$
b) How much does John pay for the football himself?
$€$ $\qquad$


8 a) Work out the output of these number machines:
i)

ii)

b) Work out the input of this number machine:


9 In a class of 24 students, half of them live in Famrun, 8 live in Sliema and the others live in Msida.
a) How many students live in Hamrun?
$\qquad$ students
b) How many students live in Msida?
$\qquad$ students
c) Use this information to fill in the bar chart.


10 John was using some cubes to build the solid shown. All the cubes were exactly the same. Each cube was 1 cm long, 1 cm wide and 1 cm high, and there were 2 layers of cubes.
a) How many cubes were there in each layer?
$\qquad$ cubes
b) What was the total volume of the solid?

$\qquad$ $\mathrm{cm}^{3}$

11 Fill in the blanks:
a) $x+70^{\circ}=$ $\qquad$


$$
x=
$$

$\qquad$
b) In triangle $A B C$

$$
\begin{aligned}
& C+83^{\circ}+42^{\circ}= \\
& C+
\end{aligned}
$$


$C=$ $\qquad$
(8 marks)

12 a) Work out this bill:
3 cartons milk
at €0.85 each $\qquad$
2 packets cat food at $€ 1.52$ each

6 kg potatoes
at $€ 0.75$ per kg
$€$ $\qquad$
$\square$ bottles water at $€ 0.70$ each $€ 1.40$

TOTAL
$€$ $\qquad$
b) How many bottles of water did I buy?
$\qquad$ bottles
c) How much change do I get from $€ 20$ ?
$\qquad$
(12 marks)

13 Fill in with: likely, certain, impossible
a) I draw a square having only three sides.
b) Malta is larger than Gozo.
C) If I do not study, I will fail my exam.

