SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education
Educational Assessment Unit

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

Name: _____ **Class:** _____

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

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 = _____

(3 marks)

2 Complete:

a) 34 + ☐ = 80

b) 78 – ☐ = 51

(2 marks)

3 Arrange these numbers in ascending order (smallest first):

23, 2.93, 18, 20.9

_____ _____ _____ _____

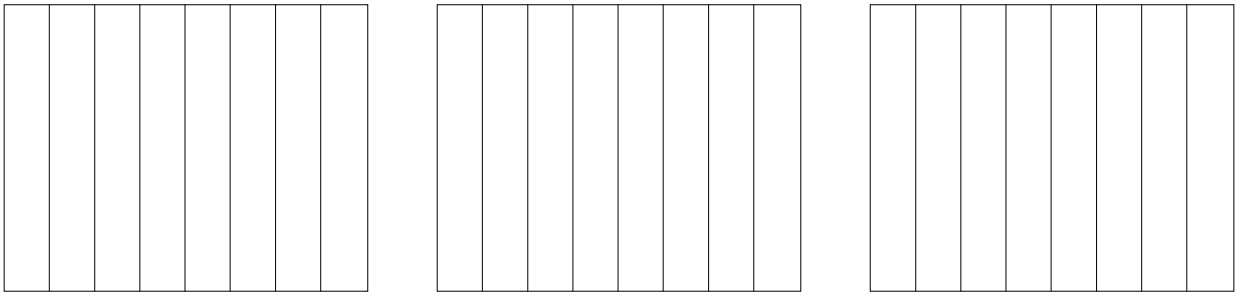
(2 marks)

4 How many degrees are there in 1 right angle?

_____ °

(1 mark)

5 **Shade** in the amount shown under each rectangle:



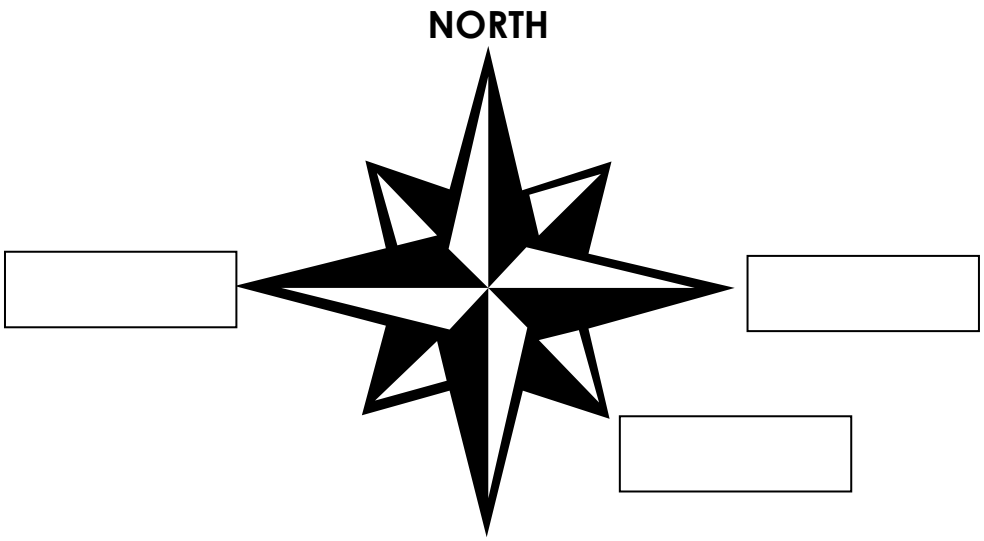
$\frac{1}{8}$ $\frac{3}{4}$ 25%

(4 marks)

---

6 Fill in the boxes below by choosing the correct word from:

East (E) **West** (W) **South-east** (SE)



(3 marks)

---

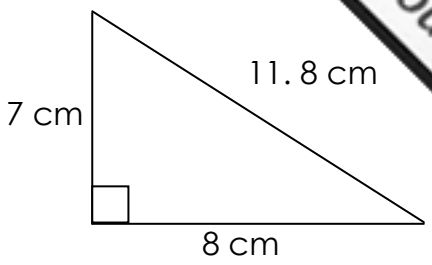
7 Work out the mean (average) of these numbers:

7, 10, 9, 6

(2 marks)

---

8 Calculate the perimeter of this triangle.

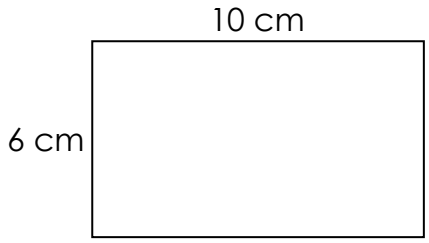


Perimeter = _____cm

(2 marks)

---

9 Calculate the area of this rectangle.



Area = _____cm^2

(2 marks)

---

10 Complete:

a) 13, 16, _____, 22, _____.

b) 10, 8, _____, 4, 2, _____, –2.

(4 marks)

End of Paper

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education
Educational Assessment Unit

FORM 2 **MATHEMATICS SCHEME D** **TIME: 1h 30min**

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Total Main	Non Calculator	**Global Mark**
Mark																

DO NOT WRITE ABOVE THIS LINE

Name: _____ **Class:** _____

- 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 :

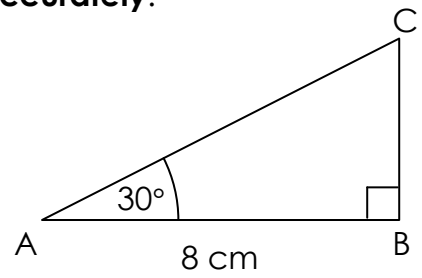
a) 197.4 + 152.6 = _____

b) 9 + 8.5 = _____

c) 290 ÷ 20 = _____

(3 marks)

2 Use a ruler and a protractor to draw triangle ABC **accurately**.
Measure the length of AC.

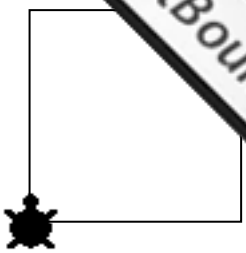


AC = _____cm

A

(5 marks)

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



_____ts

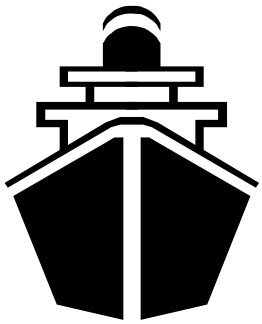
b) Fill in the blanks to draw the square:

PD Repeat _____ [FD _____ RT _____]

(5 marks)

---

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 Ċirkewwa 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)

(4 marks)

---

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.

A

diameter = _____cm

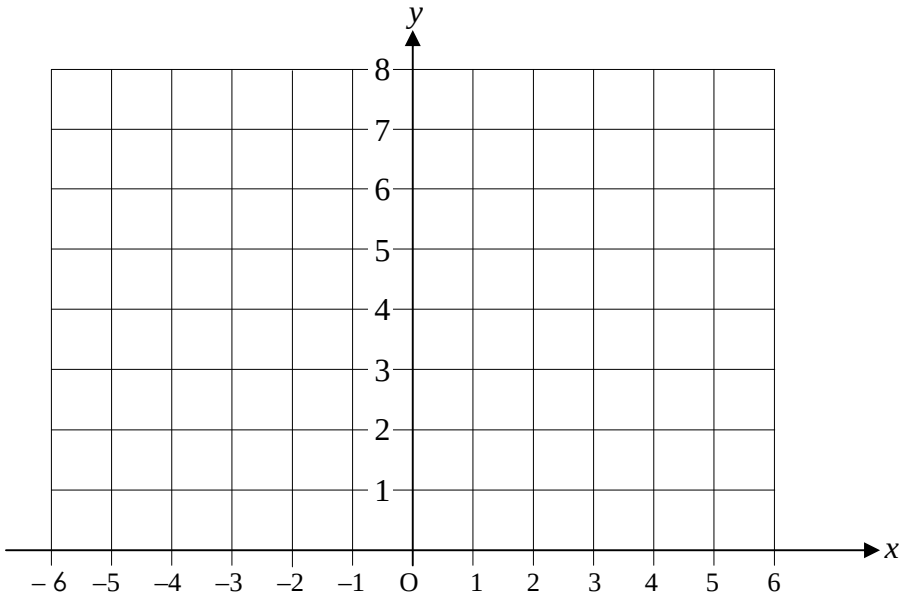
(5 marks)

Name: _____ **Class:** _____

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 ABCD.

(8 marks)

---

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?

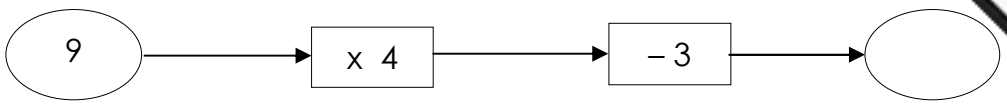
€ _____

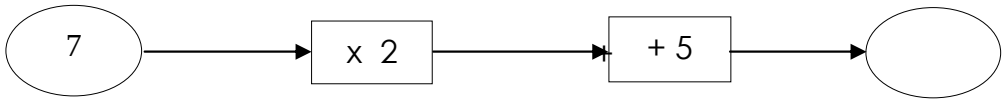
b) How much does John pay for the football himself?

€ _____

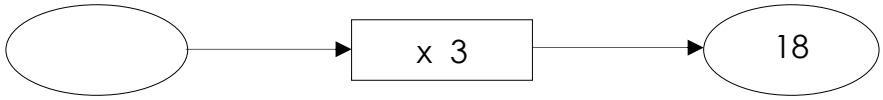
(4 marks)

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

i) 

ii) 

b) Work out the **input** of this number machine:



(6 marks)

---

9 In a class of 24 students, half of them live in Ħamrun, 8 live in Sliema and the others live in Msida.

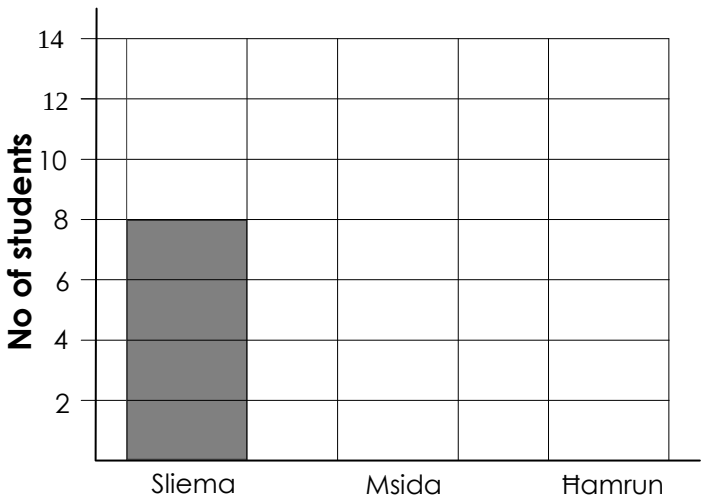
a) How many students live in Ħamrun?

_____students

b) How many students live in Msida?

_____students

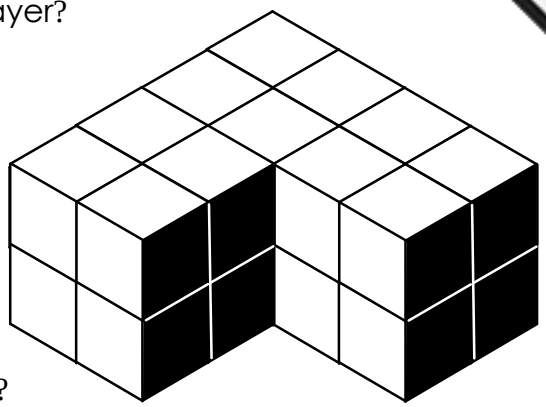
c) Use this information to fill in the bar chart.



(7 marks)

10 John was using some cubes to build the solid shown. All the cubes w
exactly the same. Each cube was 1cm long, 1cm wide and 1cm high,
there were 2 layers of cubes.

a) How many cubes were there in each layer?



_____ cubes

b) What was the **total volume** of the solid?

_____ cm^3

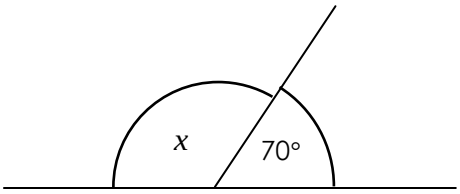
(5 marks)

---

11 Fill in the blanks:

a) $x + 70^\circ = \_\_\_\_\_^\circ$

$x = \_\_\_\_\_^\circ$

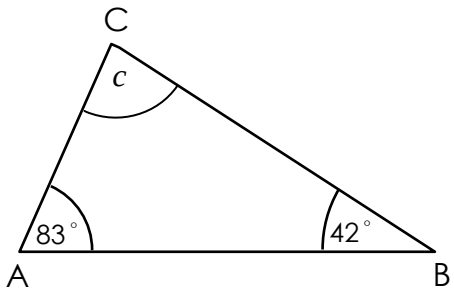


b) In triangle ABC

$c + 83^\circ + 42^\circ = \_\_\_\_\_^\circ$

$c + \_\_\_\_\_^\circ = \_\_\_\_\_^\circ$

$c = \_\_\_\_\_^\circ$



(8 marks)

. 12 a) Work out this bill:

3 cartons milk	at €0.85 each	€ _____
2 packets cat food	at €1.52 each	€ _____
6 kg potatoes	at €0.75 per kg	€ _____
☐ bottles water	at € 0.70 each	€ 1 . 4 0
	TOTAL	€ _____

b) How many **bottles of water** did I buy?

_____ bottles

c) How much change do I get from €20?

€ _____

(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. _____

(3 marks)