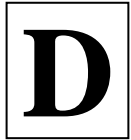


SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

Directorate for Quality and Standards in Education
Educational Assessment Unit



FORM 2

MATHEMATICS SCHEME D

TIME: 30 minutes

Non-Calculator Paper

Name: _____

Class: _____

Question	1	2	3	4	5	6	7	8	9	10	11	12	Total
Mark													

Instructions to Candidates

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

1. In the number 34567

a) _____ is the **TENS** digit.

b) _____ is the **HUNDREDS** digit.

(2 marks)

2. Work out:

$$\begin{array}{r} 42 \cdot 50 \\ + 8 \cdot 10 \\ \hline \end{array}$$

(1 mark)

3. Fill in:

a) $330 + 200 =$ _____

b) $25 \times 4 =$ _____

c) $3 + (2 \times 4) =$ _____

d) $280 \div 2 =$ _____

(8 marks)

4. Fill in with: +, -, \times or \div

a) $24 \square 4 = 6$

b) $5 \square 7 = 35$

c) $8 \square 5 = 3$

d) $10 \square 10 = 20$

(4 marks)

5. Write in order, **smallest** first.

€3.50 €1.00 €2.60 €3

(2 marks)

6. The value of the digit 5 in €2.50 is _____.

a) €5

b) 50cent

c) €50

(1 mark)

7. A 12-year old girl is about _____ tall.

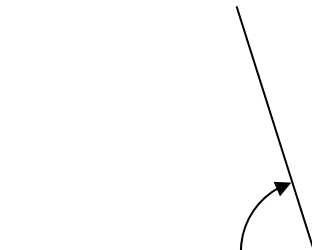
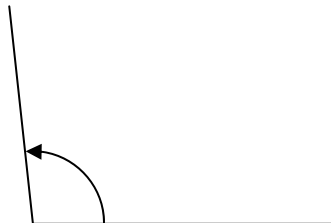
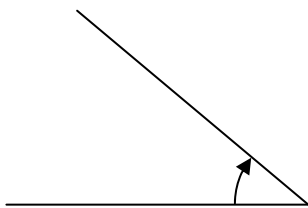
a) 45 cm

b) 145 cm

c) 5 m

(1 mark)

8. Tick ✓ the angle which is about 40°.



a)

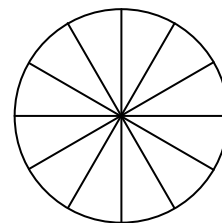
b)

c)

(1 mark)

9.

$\frac{1}{2}$ is the same as _____



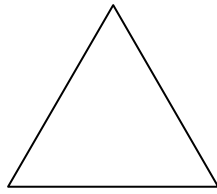
a) $\frac{2}{12}$

b) $\frac{3}{12}$

c) $\frac{6}{12}$

(1 mark)

10. The equilateral triangle has rotational symmetry of order _____.



(2 marks)

11. The **multiple** of 4 is _____

a) 34

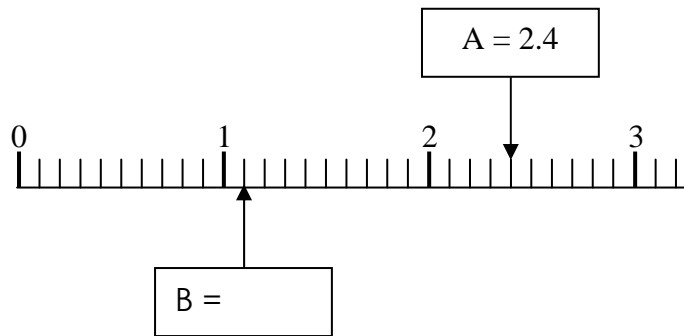
b) 14

c) 25

d) 28

(1 mark)

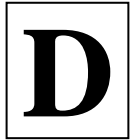
12. Find B.



(1 mark)

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

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	14	15	16	17	18	19	20	Total Main	Non Calc	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. a) **Twenty five thousand** in figures is _____ .

2500

20500

25000

b) 489 correct to the **nearest** 100 is _____ .

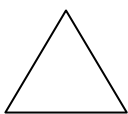
400

500

490

(2 marks)

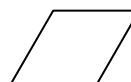
2. a) Shape _____ has a **right angle**.



L

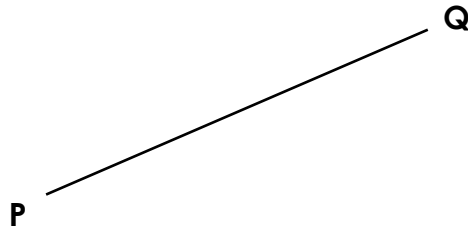


M



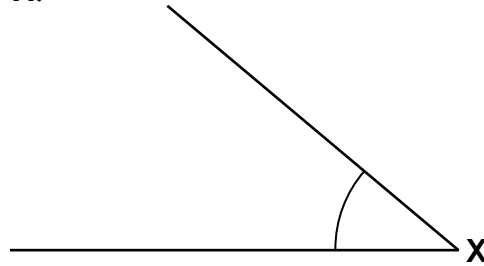
N

2. b) Measure the line **PQ**.



PQ = _____ cm

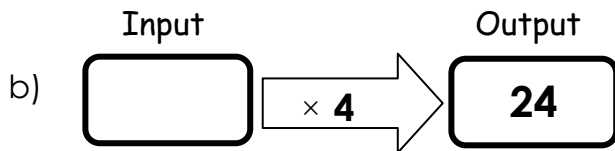
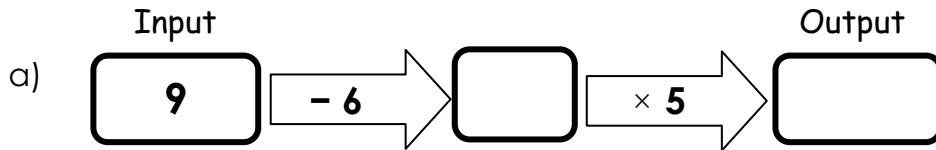
c) Measure angle **X**.



Angle X = _____ °

(3 marks)

3. Fill in the spaces:



(4 marks)

4. a) Find the **sum** of **2, 4, 6** and **8**.

b) Find the **mean** of **2, 4, 6** and **8**.

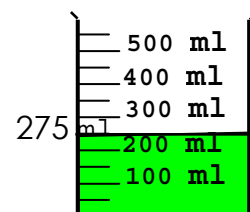
(2 marks)

5. There are _____ ml of water in the jug.

250 ml

200 ml

5 ml



(1 mark)

Name: _____

Class: _____

D

6. a) Write 50% as a fraction in its **simplest** form.

$$50\% = \frac{\square}{\square} = \frac{\square}{\square}$$

b)



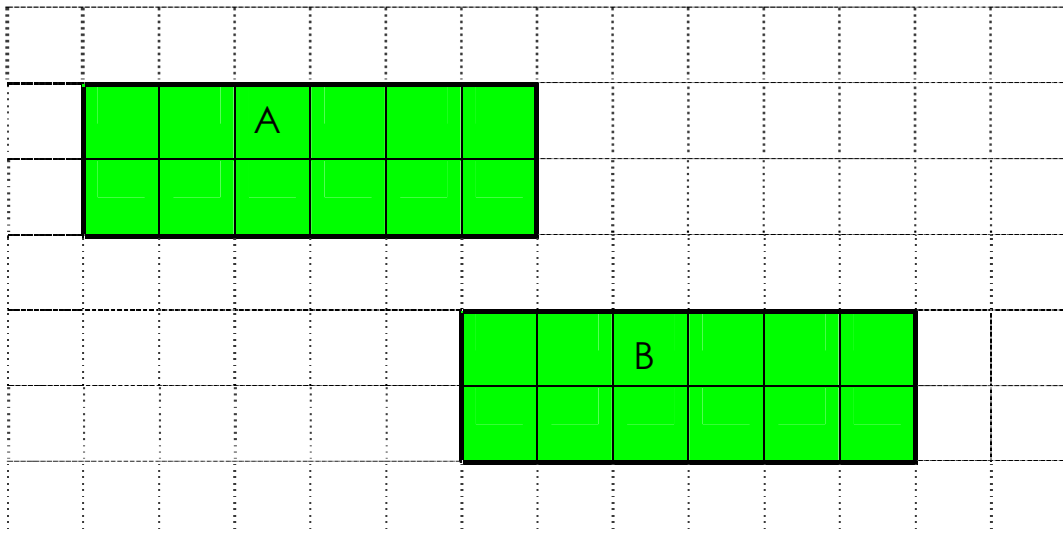
During the sale Greta buys the t-shirt shown.

How much does she pay for it?

€ _____

(4 marks)

7.

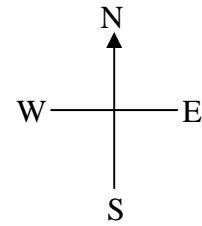
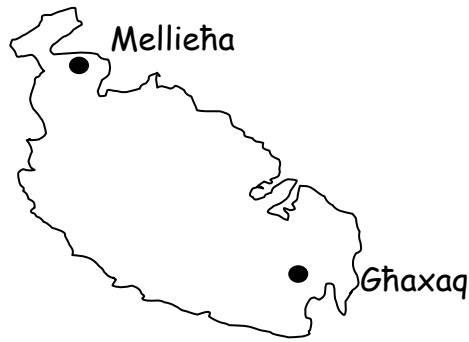


Each square is of side 1 cm.

- a) The **perimeter** of rectangle A is _____ cm.
- b) The area of rectangle **A** is _____ cm².
- c) Rectangle **A** is _____ (translated/reflected) to rectangle **B**.
- d) Rectangle **A** moves 5 _____ to the (left/right) and
3 _____ (up/down) to become rectangle **B**.

(5 marks)

8.



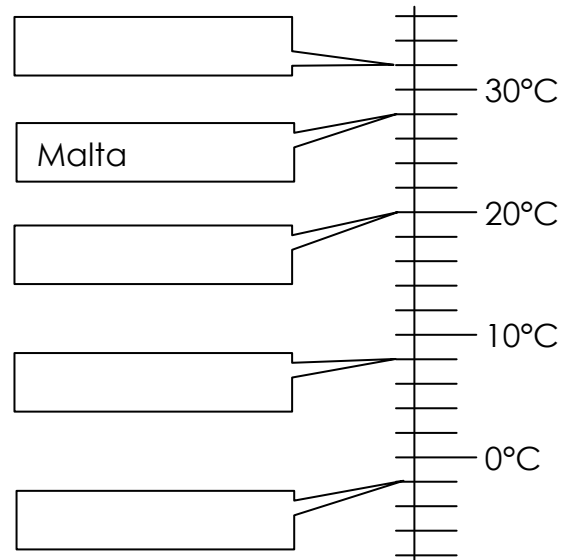
I am at Għaxaq. In which direction do I look to face Mellieħa?

NW, S, SE, W

(2 marks)

9. The temperature of five countries is as shown below.

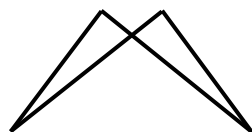
Malta	28°C
England	20°C
New Zealand	8°C
Morocco	32°C
Canada	-2°C



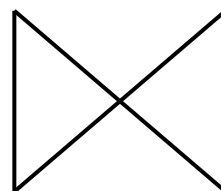
Fill in the empty boxes with the correct country.

(4 marks)

10. a) Draw the line/s of **symmetry** for **each** of the shapes.



(i)



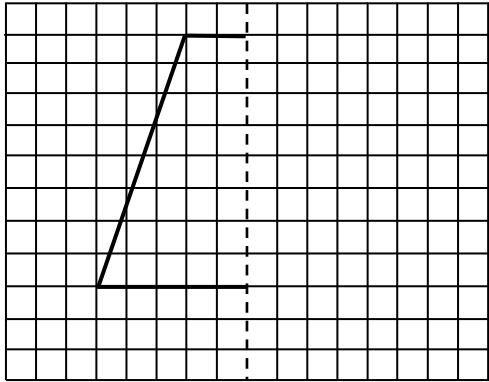
(ii)

Name: _____

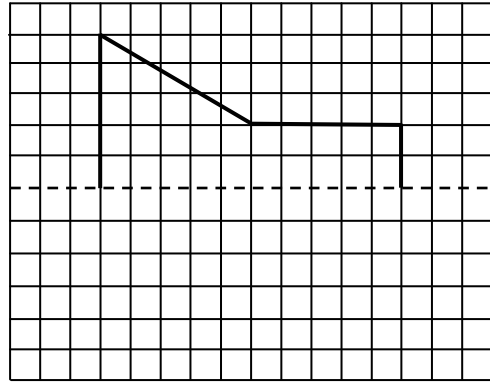
Class: _____

D

10. b) Complete the shapes to make them symmetrical about the dotted lines of symmetry shown.



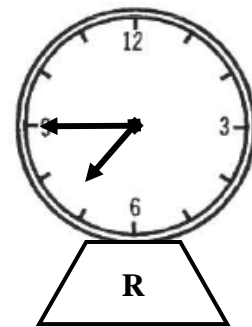
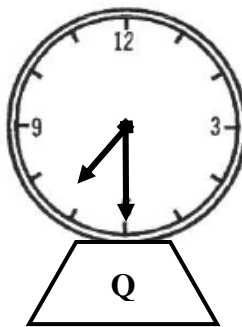
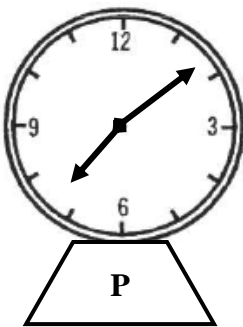
(i)



(ii)

(6 marks)

11. a) The clock face labelled _____ (P, Q, R) shows the time **7:30**.



- b) **7:30** in words can be written as _____

(i) half past seven

(ii) quarter to seven

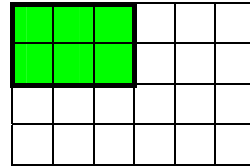
(iii) quarter past seven

(iv) seven o'clock.

- c) Use the 24-hour clock to write **six** o'clock in the **evening**.

(3 marks)

12. a) What fraction is shaded? _____



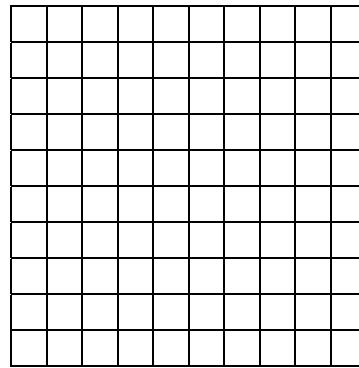
b) What is $\frac{1}{4}$ of 24? _____

c) What is $\frac{3}{4}$ of 24? _____

d) (The 100-square grid may help you in this question.)

$\frac{1}{4}$ as a decimal is _____.

1.4, 0.04, 0.25



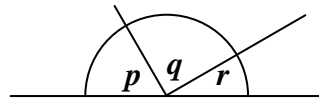
e) Work out:

$$\frac{3}{5} + \frac{1}{5} = \underline{\hspace{2cm}}$$

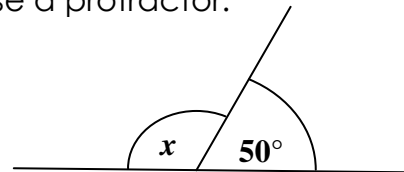
(5 marks)

13. a) p , q and r are angles on a straight line.

So $p + q + r = \underline{\hspace{2cm}}^\circ$



b) Find the size of the angle marked x . Do **not** use a protractor.

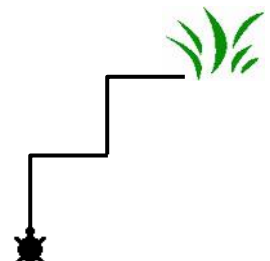


$x = \underline{\hspace{2cm}}^\circ$

(4 marks)

14. The turtle moves along the path towards the grass.
Write the 2 **missing** commands.

PD FD 20 RT 90 FD 20 LT 90 _____ FD 20

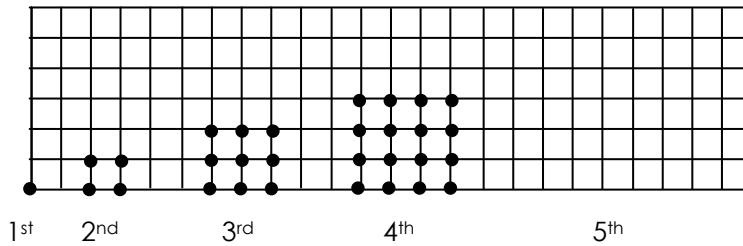


(2 marks)

15. a) (i) Continue the number pattern.
 34, _____, 50, 58, 66, _____ .

(ii) The rule is: _____ each time.
 add 8, subtract 8, multiply by 8

b) (i) Continue **1 more set** of dots in the pattern below.



(ii) Complete:

Pattern Number	1 st	2 nd	3 rd	4 th	5 th
Number of Dots	1	4	9		

(iii) The number of dots in each pattern above is _____ number.
 an odd, an even, a square

(6 marks)

16. This year Valerie's birthday was on a **Thursday**.

a) What **day** was it two days **later**? _____
 (Friday, Wednesday, Saturday)

b) How many **days** are there in June? _____ days
 (30, 31, 28, 29)

c) Write the **date** of next **Christmas Day**.

Day / Month / Year

/ /

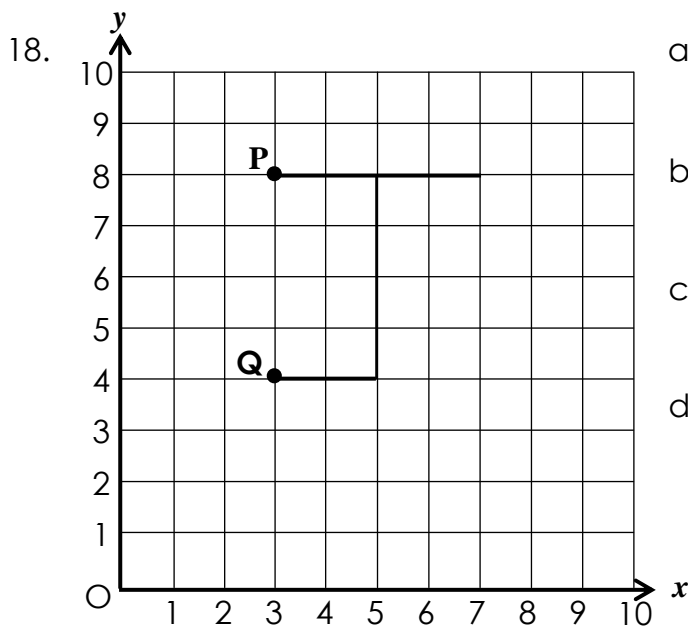
(3 marks)

17. a) Draw a circle with centre **V** and radius 3cm.

. **V**

b) Draw a **diameter** in your circle.

(2 marks)



a) Coordinates of point **P** are (,).

b) Plot point **R** (7, 4).

c) Join Q to R.

d) What letter have you drawn? _____

(3 marks)

19. The following are the favourite sports of 20 children.

Football (F) Basketball (B) Netball (N)
 Athletics (A) Swimming (S)

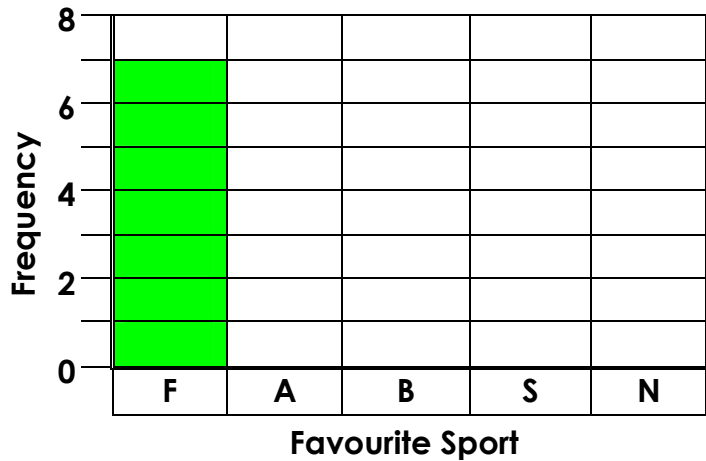
This is the information collected.

F	F	S	F	S
S	S	F	A	B
A	A	B	F	N
A	N	B	F	F

a) Fill in the table below.

Sport	Tally	Frequency
F		7
A		
B		
S		
N		
TOTAL		

b) **Complete** the bar chart.



c) **Circle** the **least** popular sport in this group.

Football Athletics Basketball Netball Swimming

d) **Circle** the two sports which are liked the **same**.

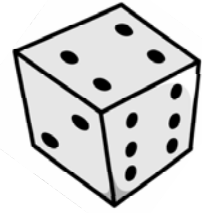
Football Athletics Basketball Netball Swimming

(8 marks)

20. a) The dice is a _____ . (cube, cuboid, cylinder)

b) This dice has _____ (3, 6, 8) **faces** in all.

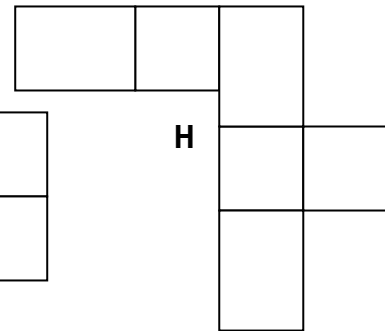
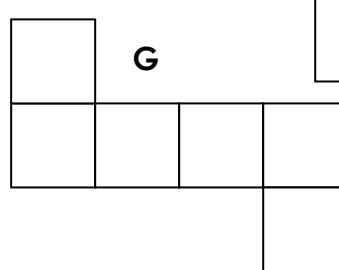
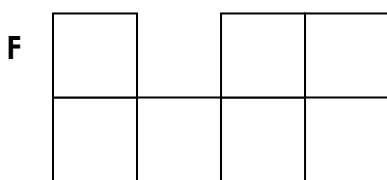
c) Each **face** has the shape of a _____.
(triangle, rectangle, square)



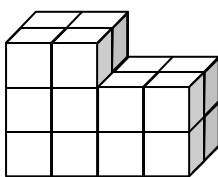
d) When I throw the dice, the **probability** of getting the number 4 is _____.

$$\frac{4}{6}, \frac{1}{6}, \frac{6}{6}$$

e) Which one of the nets below forms the dice? _____ (F, G, H)



f) The solid **below** is made up of cubes. The volume of each cube is 1 cm³.



What is the volume of the solid? _____

10 cm³, 20cm³, 24 cm³

(6 marks)

END OF PAPER