

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

Directorate for Quality and Standards in Education
Educational Assessment Unit

FORM 2

MATHEMATICS SCHEME D
Non-Calculator Paper

TIME: 30 minutes

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.

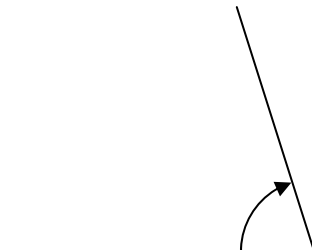
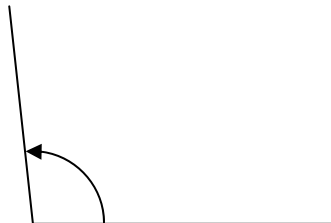
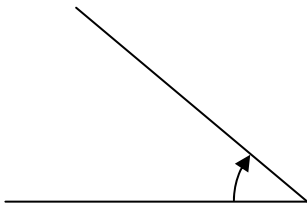
a) 45 cm

b) 145 cm

c) 5 m

(1 mark)

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



a) ☐

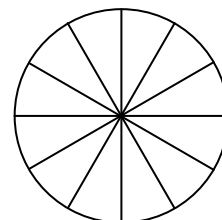
b) ☐

c) ☐

(1 mark)

9.

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



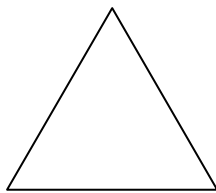
a) $\frac{2}{12}$

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

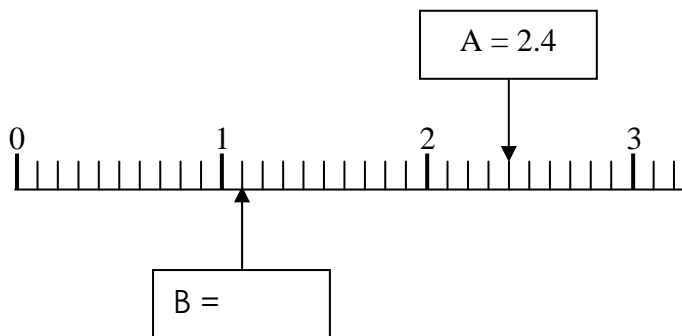
b) 14

c) 25

d) 28

(1 mark)

12. Find B.



(1 mark)

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

Directorate for Quality and Standards in Education
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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)

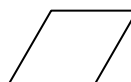
2. a) Shape _____ has a **right angle**.



L

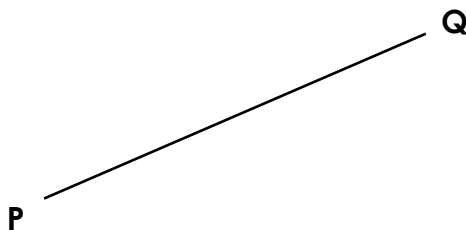


M



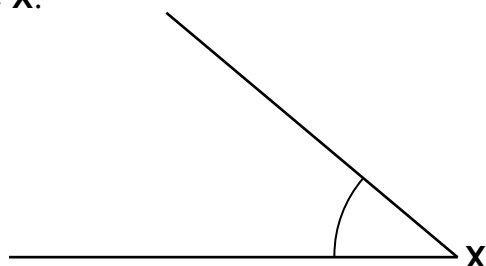
N

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



PQ = _____ cm

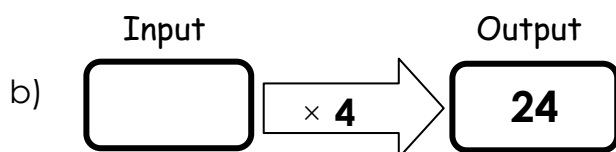
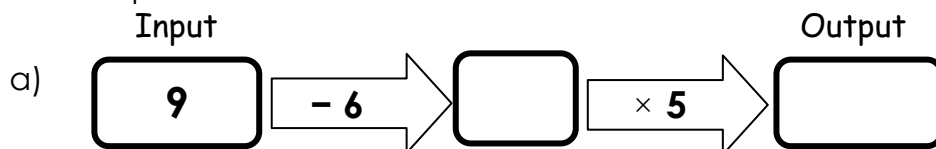
- c) Measure angle **X**.



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**.

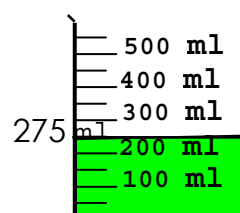
(2 marks)

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

250 ml

200 ml

5 ml



(1 mark)

Name: _____

Class: _____

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

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

b)



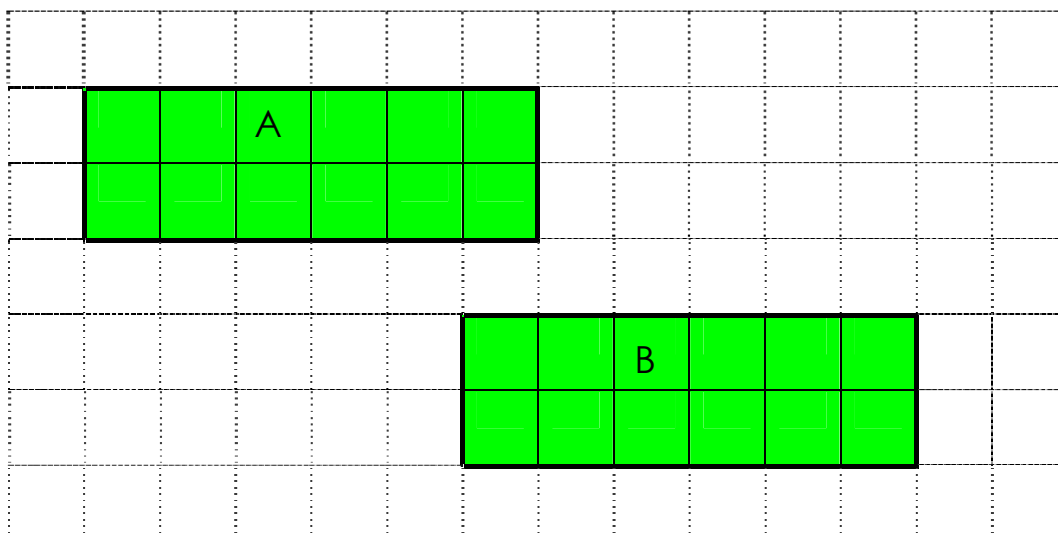
During the sale Greta buys the T-shirt shown.

How much does she pay for it?

€ _____

(4 marks)

7.

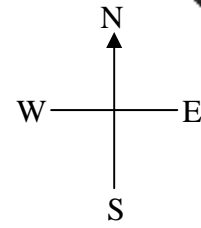
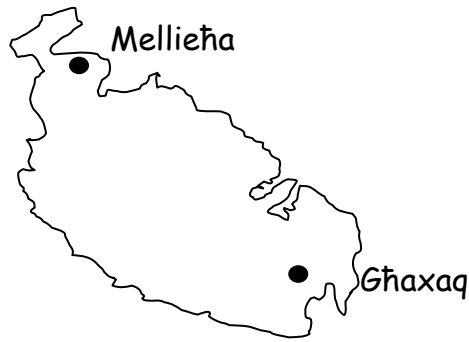


Each square is of side 1 cm.

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

(5 marks)

8.



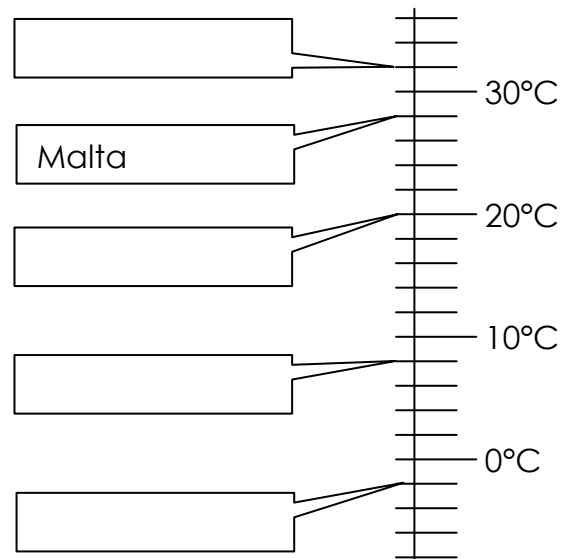
I am at Għaxaq. In which direction do I look to face Mellieħa?

NW, S, SE, W

(2 marks)

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

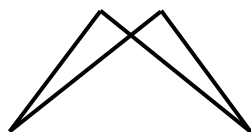
Malta	28°C
England	20°C
New Zealand	8°C
Morocco	32°C
Canada	-2°C



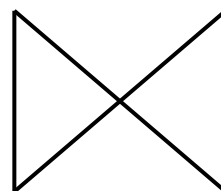
Fill in the empty boxes with the correct country.

(4 marks)

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



(i)

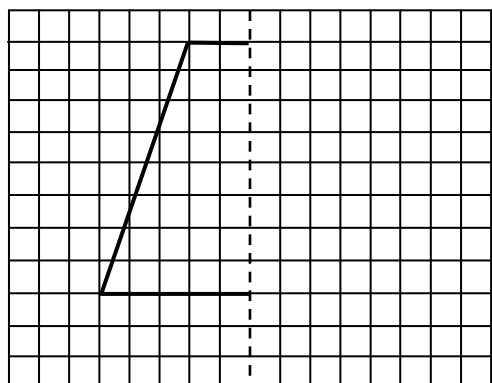


(ii)

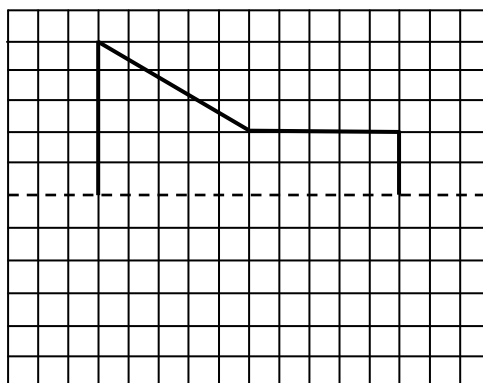
Name: _____

Class: _____

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



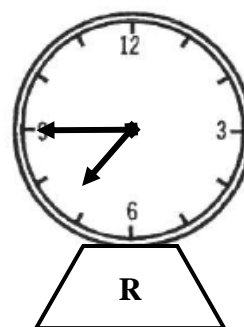
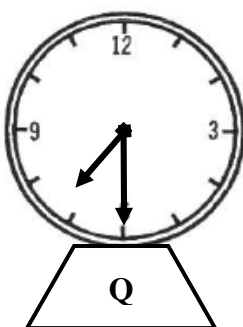
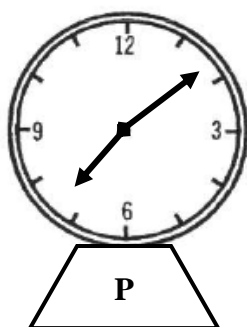
(i)



(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

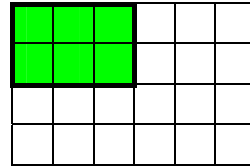
(iii) quarter past seven

(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? _____



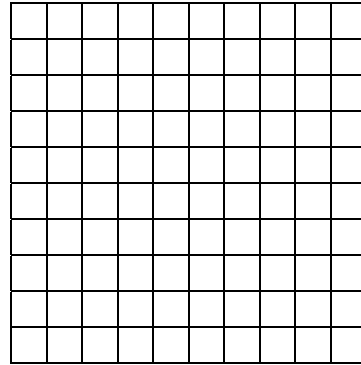
b) What is $\frac{1}{4}$ of 24? _____

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



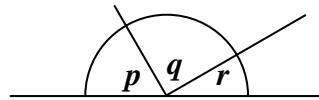
e) Work out:

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

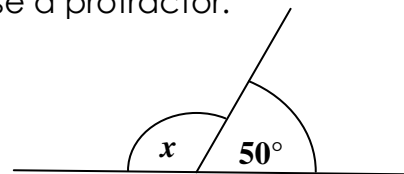
(5 marks)

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.

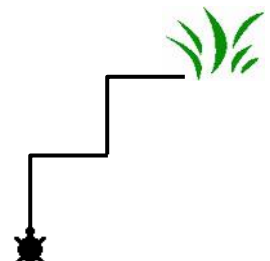


$x = \underline{\hspace{2cm}}^\circ$

(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

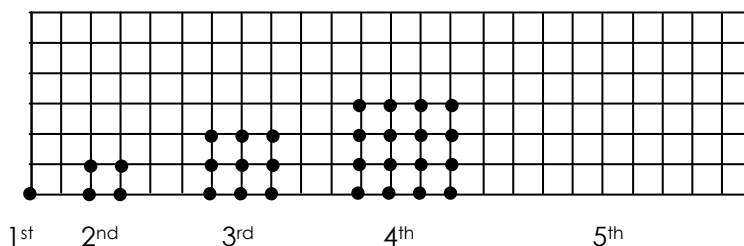


(2 marks)

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

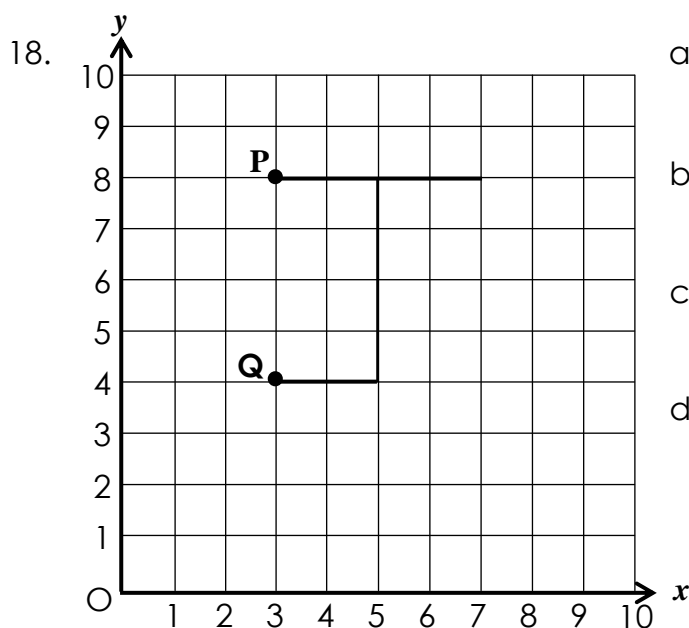
(3 marks)

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)

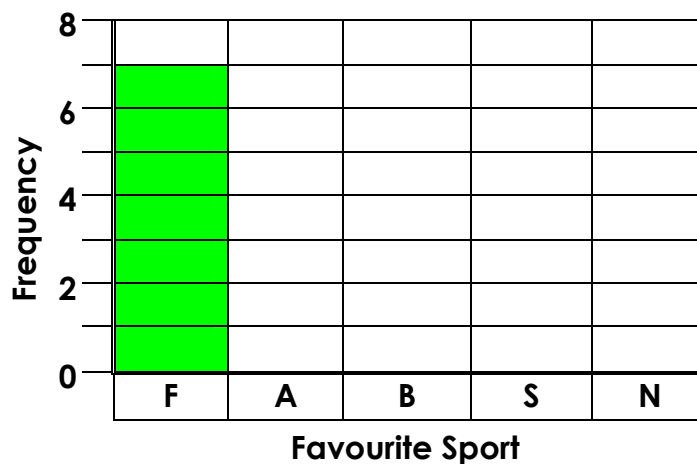
This is the information collected.

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.



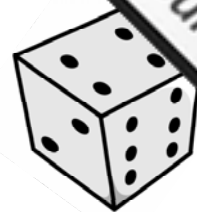
- c) **Circle** the **least** popular sport in this group.

Football Athletics Basketball Netball Swimming

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

Football Athletics Basketball Netball Swimming

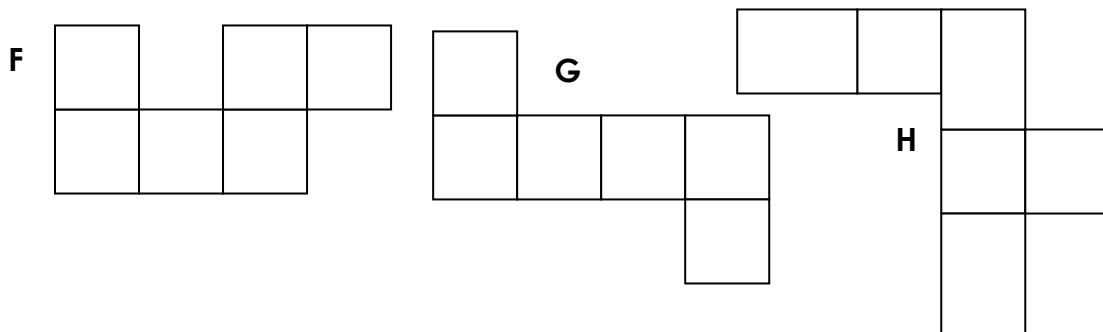
(8 marks)



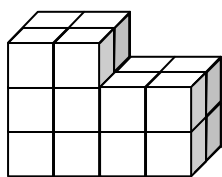
20. a) The dice is a _____. (cube, cuboid, cylinder)
- b) This dice has _____ (3, 6, 8) **faces** in all.
- c) Each **face** has the shape of a _____.
(triangle, rectangle, square)
- d) When I throw the dice, the **probability** of getting the number 4 is _____.

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

- 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