**SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010** 

Directorate for Quality and Standards in Education Educational Assessment Unit

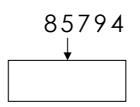
#### FORM 4 **MATHEMATICS SCHEME D TIME: 30 minutes Non-calculator Paper** Name: \_\_\_\_\_ Class: \_\_\_\_\_ Question 2 4 7 8 9 10 Total 1 3 5 6 Mark

## **Instructions to Candidates**

- Answer ALL questions.
- This paper carries a total of 20 marks.
- Calculators and protractors are not allowed.



1. Write down the **value of 5** in this number:

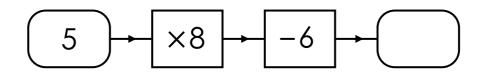


(1 mark)

2. Arrange in order of size, starting with the **smallest**.

	(2 marks)
3. Subtract: 5000-	
3109	
	(2 marks)

4. **Complete** the function machine.

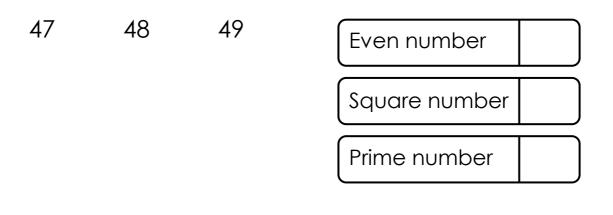


(1 mark)

5. Work out:  $\frac{3}{5} \times \in 35$ 

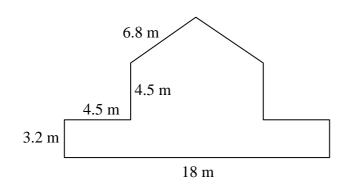
€

Use these numbers to fill in the empty spaces. 6.



(3 marks)

7. This shape is **symmetrical**. Work out the **perimeter** of this shape.

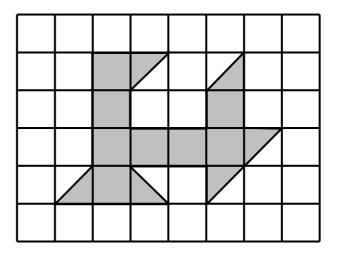


m (3 marks)

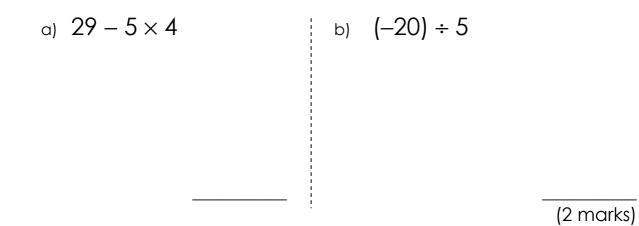
 $cm^2$ 

page 3 of 4

Each side of a square is 1 cm. 8. Find the area of the shaded shape.



## 9. Work out:



10. A school bus makes the same trip each day. In 9 days this school bus covers 441 km. Work out the length of each trip.



(2 marks)

# **End of Paper**

SS Form 4 Scheme D Mathematics Main Paper 2010

### **SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010**

**MATHEMATICS SCHEME D** 

8

7

6

Directorate for Quality and Standards in Education Educational Assessment Unit

**Main Paper** 

9

10

11

12

13

14

## DO NOT WRITE ABOVE THIS LINE

Name \_\_\_\_\_

4

5

Answer all questions.

2

3

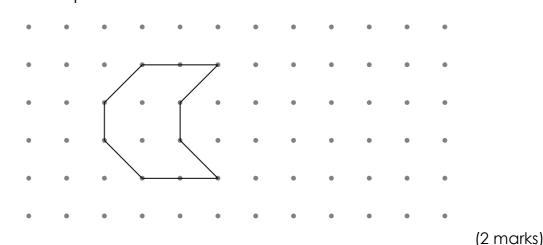
FORM 4

1

Question

Mark

- 2. Tessellate this shape 2 more times:
- Class This paper carries 80 marks. Calculators and mathematical instruments are allowed but all necessary working must be shown. 1. a) **Round** the following numbers: 12.455 correct to 2 decimal places: i) ii) 14193 correct to **nearest ten**: b) Write as an ordinary number:  $7.9 \times 10^4 =$ (4 marks)





Global

Mark

TIME: 1h 30min

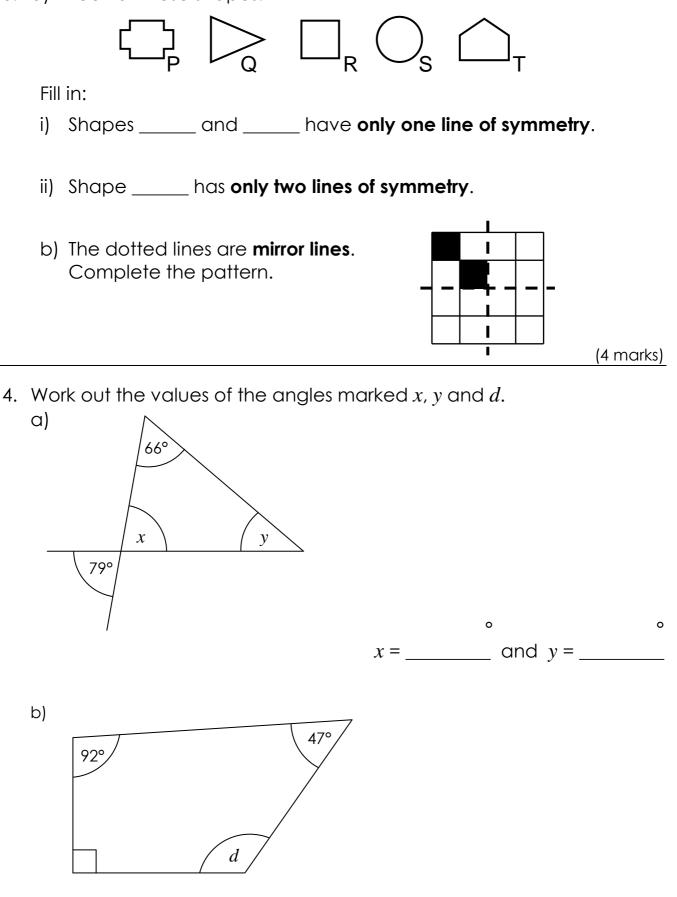
Non

Calc

Total

Main

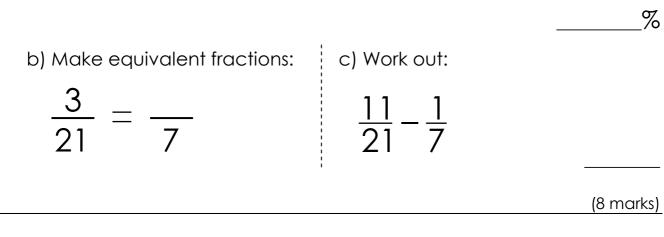
3. a) Look at these shapes:



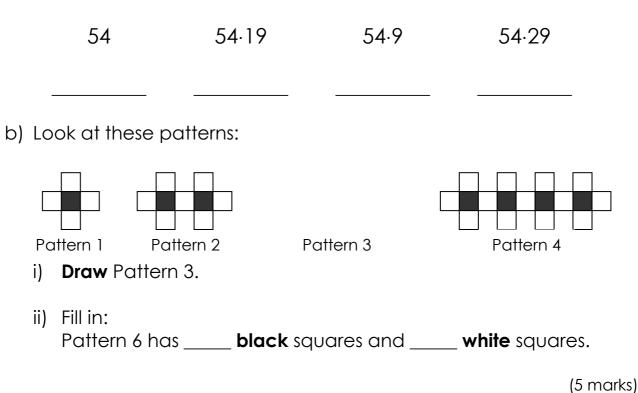
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Name	Class	D
5. a) Look at the shape.	What <b>fraction</b> of the shape is <b>shaded</b> ? Give your answer in its <b>simplest form</b> .	

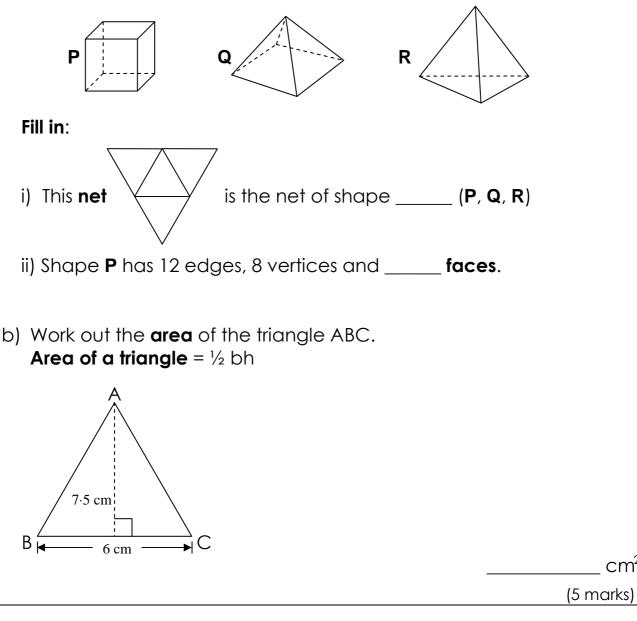
ii) What percentage of the shape is shaded?



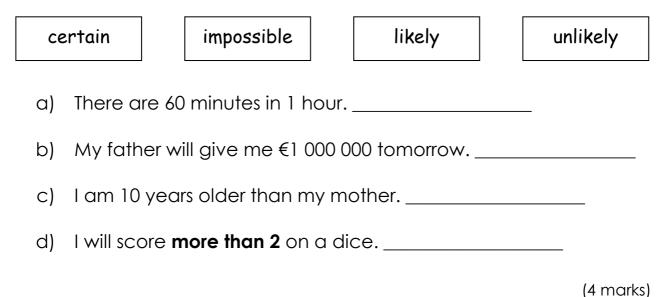
6. a) Arrange the following numbers in order largest first:



7. a) Look at these shapes.



8. Fill in the blanks using the following words. Each word can be used **only once**.



cm<sup>2</sup>

- 9. a) i) **Simplify** 24:16
  - ii) Margaret and Frank share a 2000 ml bottle of water between them in the ratio of 3 : 2. Work out how much water each take.

Margaret: \_\_\_\_\_ *ml* 

Frank: \_\_\_\_\_ *ml* 

€

b) i) A waitress is paid €150 for 3 weeks of work.
How much does she receive for 1 week of work?

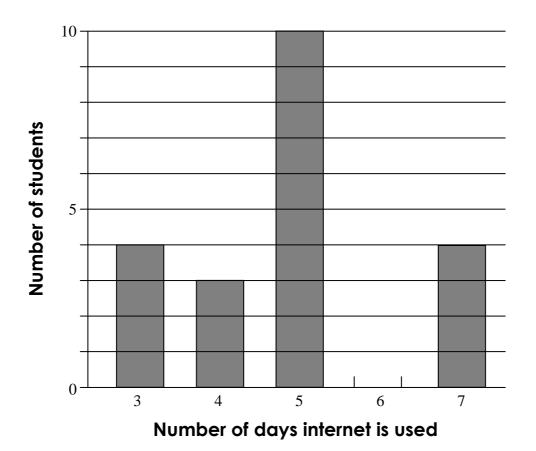
ii) How much does she receive for 7 weeks of work?

		€(10 marks)
10.a) i)	Draw the hands of the clock to show 7:15 pm.	12/
ii)	Write 7:15 pm in 24-hour time.	5 · 3 - 6 \

b) An aeroplane leaves Malta at 4:30 pm and arrives in Berlin at 7:15 pm.
 Work out the length of the flight.

11. The table and the bar graph show the number of days the students in a Form 4 class use the internet during one week.

Number of days internet is used	· Number of students	
3	4	
4		
5	10	
6	9	
7	4	



a) Complete the **table**.

b) Complete the graph.

Fill in:

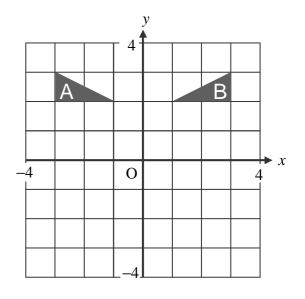
- c) i) The **total number** of students in the class is \_\_\_\_\_.
  - ii) There are \_\_\_\_\_\_ students who use the internet for more than 5 days in a week.

(6 marks)

12. a) Fill in:

Shape **B** is a \_\_\_\_\_ (translation, reflection, rotation) of Shape A.

b) Translate Shape **B** 3 units to the left and 5 units down.



(4 marks)

13. a) Simplify: 5a - 9b - 2a + 2b + 4a + 3c + 6c

b) Find the value of *y*: 5y + 12 = 47

c) If p = 3 and q = 4 find the value of: 7p - 3q

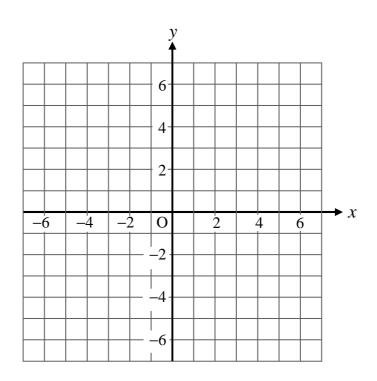
d) Expand: 4(3m - 7)

(10 marks)

14. a) Fill in the table for the graph y = x + 2.

x	-6	1	4
+2	+2	+2	
<i>y</i> = <i>x</i> + 2	-4		6

b) Use your table to plot the graph y = x + 2 on the grid.



- c) Use your graph to fill in:
  - i) When x = -2, y =\_\_\_\_\_
  - ii) When y = 4, x =\_\_\_\_\_

(6 marks)

## **End of Paper**