SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education Educational Assessment Unit



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Instructions to Candidates

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

1.	Place the following	four	numbers	in	order of	size,	the	smallest	first	•
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 500×1000 56 000 10^2 1 million

(4 marks) Mario wants to share **€465** equally between **15** people. 2. How much does each person get? (2 marks) Change $\frac{22}{1000}$ to a **decimal** number. 3. - (2 marks) (a) Work out $\frac{7}{12} + \frac{1}{12}$ and give your answer to its lowest term. 4. (b) Write in its simplest form 2 m : 50 cm



7. Round each number to the nearest whole number and then work out the approximate answer.The first one is done for you.

	Problem	Nearest whole number	Approximate answer
(a)	$6{\cdot}3\times4{\cdot}51+2{\cdot}9$	$6 \times 5 + 3$	33
(b)	8.1 + 6.68		
(c)	25.33×1.8		

- (4 marks)

END OF PAPER

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- Answer all questions.
- This paper carries 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.
- 1. I left home at **22:30** to spend the night fishing.

I returned home **5 hours 30 minutes** later.

(a) At what time did I return?

- (3 marks)

(b) **Show** this time on the cuckoo clock.



The boxes are packed in a large wooden crate.

It can contain exactly **80** toy boxes.

(b) What is the **volume** of the inside of the crate in cm^3 ?

Each toy box weighs **0.5 kg**.

The wooden crate weighs **4 kg** when empty.

(c) What is the **total** weight in kg of the crate when full of toy boxes?

- (7 marks)



Work out the **area** of shape ABCDE. Each square in the grid is 1 cm^2 .

- (5 marks)

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4. From this tombola card,

	11	25		40		64	72	
5		27	31		54			81
	13		38		58	68		87

(a) list two **prime** numbers. (b) list two multiples of **3**. (c) list two square numbers. (d) find a number and its square root. - (4 marks) Write in order the **smallest** first:

5.

0.3 0.13 3.0001 0.33

— (2 marks)



7. This **function machine** doubles the input *I* and then adds one, to obtain output *P*.



- (6 marks)



12. These patterns are made up of black and white squares.



Complete this table. You have **four** answers to fill in.

	1 st pattern	2 nd pattern	3 rd pattern	5 th pattern	10 th pattern
White squares	4	6	8		
Black squares	1	2	3	5	
Total of squares	5	8	11	17	

– (4 marks)



Look carefully at the diagram.

Work out the missing angles.

(a) $n = _____{o}$ (b) $p = _____{o}$ (c) $q = _____{o}$ (d) $r = _____{o}$ (e) $s = _____{o}$

- (5 marks)

14. Jesmond throws a six-sided dice.

Work out the **probability** that he scores:







- (d) **Translate** shape P, 10 to the left and 6 down.
- 16. The pie chart represents the number of men, women and children that went to a party.

There were **120** people in all.

(a) Complete the following:

The number of

men was

women was _____.







—— (5 marks)

Draw a bar chart to show this information.



17. (a) Make an **accurate** drawing of this triangle.



(b) Measure the length of BC from **your** drawing.

BC = _____

– (4 marks)

END OF PAPER