

Saint Ignatius College
Girls' Junior Lyceum
BLATA L-BAJDA
HALF YEARLY EXAMINATIONS 2009

FORM 3

MATHEMATICS Scheme A

TIME: 30 minutes

PAPER I (Non Calculator Paper)

Name: _____

Class: _____ Set: _____

Mark

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

INSTRUCTIONS TO CANDIDATES

- **Answer all questions.**
- **This paper carries 25 marks**
- **Calculators and protractors are not allowed.**
- **Write your answers in the box.**

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1

Evaluate $3\frac{1}{3} - 2\frac{1}{4}$, giving your answer in its **lowest terms**.

Do **NOT**
write
in this
margin



2 marks

2

Which one of the following expressions is the same as $8x$?

- A. $4(x + x)$
- B. $4 + 4x$
- C. $2x \times 4x$
- D. $2x + 4x$



1 mark

3

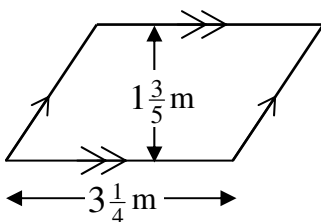
If $2^{15} = 32768$, what is the value of 2^{13} ?



2 marks

4

Calculate the **area** of this shape.



2 marks

5

The first **five** terms of a sequence are: **5, 9, 13, 17, 21**.
Write down an expression, in **terms of n**, for the **nth term** of the sequence.



3 marks

6

Simplify: $\frac{27x^2}{3xy^2}$.



Do **NOT**
write
in this
margin

2 marks

7

A book seller sells **9** Perry Dotter books.
How much will the bookshop receive if **each** book costs **€4.50**?



2 marks

8

In a sale the prices were **reduced** by **30%**. The **sale** price of a computer was **€980**. Work out the price **before** the sale.



3 marks

9

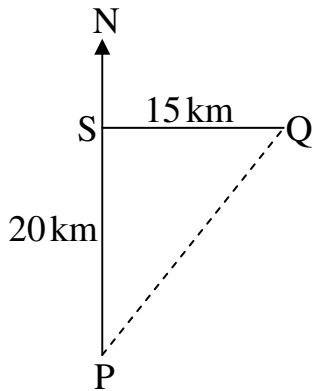
A car travels **200 km** at an average speed of **50 km/hr**.
How long does it take to finish this journey?



2 marks

10

A boat travels **20km North** from P to S, then **15km East** from S to Q. Find the **direct distance** from P to Q.



Do **NOT** write in this margin

2 marks

11

Peter has height of 9cm on a photograph. If the scale of the photograph is **1 : 16**, what is his **real** height?



2 marks

12

The diagram shows the position of a ship S, from a lighthouse L. What is the bearing of the ship **from the lighthouse**?

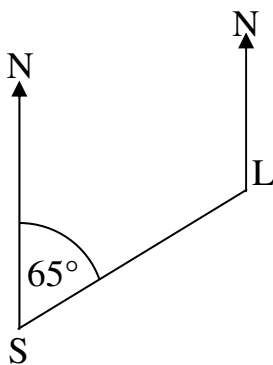


Diagram NOT drawn to scale



2 marks

END OF PAPER