

Grade 12 Mathematical Literacy: Question Paper 1

MARKS: 150

TIME: 3 hours

QUESTION 1

- 1.1 On a given day, the bank advertises the Rand : Euro exchange rate as 1 : 0,0868.
How many Euros can you buy with R 5 000,00 on this day? (3)
- 1.2 A house plan is drawn using a 1 : 75 scale
1.2.1 The front door is 2,4 cm tall on the plan. How tall is the door in reality? (3)
1.2.2 The plot of land on which the house is being built is 14 m wide. What is the corresponding length on the plan? (3)
- 1.3 The conversion table below is used to convert between the shoe sizes of different systems. Refer to this table to answer the questions that follow.

System		Sizes												
Europe		35	35½	36	37	37½	38	38½	39	40	41	42	43	44
Japan	M	21,5	22	22,5	23	23,5	24	24,5	25	25,5	26	26,5	27,5	28,5
	W	21	21,5	22	22,5	23	23,5	24	24,5	25	25,5	26	27	28
U.K.	M	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9
	W	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½
Inches		9	9¼	9½	9¾	9½	9¾	9¾	9¾	10	10¼	10½	10¾	10¾
Centimeters		22,8	23,1	23,5	23,8	24,1	24,5	24,8	25,1	25,4	25,7	26	26,7	27,3

- 1.3.1 What is the European equivalent of a UK (W) size 5 shoe? (2)
1.3.2 What shoe size would a Japanese man with a size 24 foot ask for in the U.K. (2)
1.3.3 The standard inch : cm conversion rate is 1 : 2,54 cm. According to the table 9¼ inches = 23,8 cm. Is this correct? Show your working (3)
- 1.4 The box and whisker plot below represents the batting averages of the 160 cricketers who have batted in T20 matches since 1 January 2009. Answer the questions that are based on the plot.



- 1.4.1 What is the name given to the two data points with value 57 and 57,33? (2)
1.4.2 How many players have a batting average that is less than 6,25? (2)
1.4.3 What must a batsman's batting average be for him to be in the top quartile? (2)
1.4.4 Jaques Kallis is the South African with the highest batting average. If his average is 48,4, how does he compare with the other batsmen? (2)

[24]

Maths Paper 2 June 2013 Grade12

Joacim Rocklöv



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Table of Contents Maths Paper 2 June 2013 Grade12

1. Understanding the eBook Maths Paper 2 June 2013 Grade12
 - The Rise of Digital Reading Maths Paper 2 June 2013 Grade12
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 2 June 2013 Grade12
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Paper 2 June 2013 Grade12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 2 June 2013 Grade12
 - Personalized Recommendations
 - Maths Paper 2 June 2013 Grade12 User Reviews and Ratings
 - Maths Paper 2 June 2013 Grade12 and Bestseller Lists
5. Accessing Maths Paper 2 June 2013 Grade12 Free and Paid eBooks
 - Maths Paper 2 June 2013 Grade12 Public Domain eBooks
 - Maths Paper 2 June 2013 Grade12 eBook Subscription Services
 - Maths Paper 2 June 2013 Grade12 Budget-Friendly Options
6. Navigating Maths Paper 2 June 2013 Grade12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 2 June 2013 Grade12 Compatibility with Devices
 - Maths Paper 2 June 2013 Grade12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 2 June 2013 Grade12
 - Highlighting and Note-Taking Maths Paper 2 June 2013 Grade12
 - Interactive Elements Maths Paper 2 June 2013 Grade12
8. Staying Engaged with Maths Paper 2 June 2013 Grade12

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 2 June 2013 Grade12
9. Balancing eBooks and Physical Books Maths Paper 2 June 2013 Grade12
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 2 June 2013 Grade12
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper 2 June 2013 Grade12
- Setting Reading Goals Maths Paper 2 June 2013 Grade12
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper 2 June 2013 Grade12
- Fact-Checking eBook Content of Maths Paper 2 June 2013 Grade12
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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 $32 \ 32 \ 2 \ r \ c \ x \ u \ \beta \ \beta \ \beta$ zero reaction stage

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reaction when $\Lambda = 0$ equation upper reveals that $h_1 = h_2$ and equation lower that $\beta_1 = \beta_2$ fifty percent reaction stage β_2 and the
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