

GRADE 12 MATHEMATICAL LITERACY MARCH TEST

QUESTION 1

Jane calculated her total tax paid for the previous year. It came down to the following:

P.A.Y.E (Income Tax)	R54215,00
Estimated VAT on groceries	R 5454,20

1.1 What is a PAYE? (2)

1.2 What is a PAYE deduction? (2)

She further determined that she received tax rebates to the value of R5432,80.

1.3 What is a tax rebate? (2)

1.4 What is a tax rebate? (2)

1.5 What is a tax rebate? (2) [10]

QUESTION 2

Use the tariff system below to answer the questions that follow:

Electricity residential	Tariff for 2023/24	Increase
	ck/Wh	
1 to 100 kWh	241,37	15,1%
101 to 400 kWh	282,47	15,1%
401 to 600 kWh	307,75	15,1%
600 kWh and more	331,76	15,1%

2.1 What is a tariff system? (2)

2.2 Determine the cost (in rands) of a consumer who uses 100 kWh of electricity. (2)

2.3 The consumer above, uses 400 kWh of electricity. Determine the increase in cost. (5)

2.4 How much more will the consumer pay for 600 kWh? (5)

2.5 Suggest ONE way in which the Schmidt family can save on their electricity bill. (2) [10]

QUESTION 3

3.1 Tony needs to buy a laptop for school. He is looking at the following options:

Option 1	Option 2	Option 3
Cash: R5000,00	Hire Purchase: R354pm for 24 months with R2000 deposit	Hire Purchase: R202pm for 36 months with R2500 deposit

3.1.1 What is a cash purchase? (2)

3.1.2 What is a hire purchase? (2)

3.1.3 What is a deposit? (2)

3.2 In order to make money to fund his laptop, Tony decides to give swimming lessons in his neighbours' pool. His neighbour charges him R550 per month for using his pool. His other variable expenses add up to around R750 per month. Tony breaks even if he has seven swimming lessons per month.

3.2.1 Explain the meaning of the word 'break even'. (2)

3.2.2 Present the given information on a break-even analysis graph. (7)

3.3 Tony buys food and a coldrink at the school tuck shop. His options are:

Burger	Coke
Toasted Sandwich	Fanta
Hotdog	

3.3.1 Present the information in a table. (2)

3.3.2 What is the cost of a coldrink? (2)

3.3.3 How much more will Tony pay for a hotdog than a burger? (2) [9]

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M Mark



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Table of Contents Grade12march Exemplar Papers

1. Understanding the eBook Grade12march Exemplar Papers
 - The Rise of Digital Reading Grade12march Exemplar Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade12march Exemplar Papers
 - 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 Grade12march Exemplar Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade12march Exemplar Papers
 - Personalized Recommendations
 - Grade12march Exemplar Papers User Reviews and Ratings
 - Grade12march Exemplar Papers and Bestseller Lists

5. Accessing Grade12march Exemplar Papers Free and Paid eBooks
 - Grade12march Exemplar Papers Public Domain eBooks
 - Grade12march Exemplar Papers eBook Subscription Services
 - Grade12march Exemplar Papers Budget-Friendly Options
6. Navigating Grade12march Exemplar Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade12march Exemplar Papers Compatibility with Devices
 - Grade12march Exemplar Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade12march Exemplar Papers
 - Highlighting and Note-Taking Grade12march Exemplar Papers
 - Interactive Elements Grade12march Exemplar Papers
8. Staying Engaged with Grade12march Exemplar Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade12march Exemplar Papers
9. Balancing eBooks and Physical Books Grade12march Exemplar Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade12march Exemplar Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade12march Exemplar Papers
 - Setting Reading Goals Grade12march Exemplar Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade12march Exemplar Papers
 - Fact-Checking eBook Content of Grade12march Exemplar Papers
 - 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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