

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 system? (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 system? (2)

1.5 What is a tax rebate system? (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 hire purchase? (2)

3.1.2 What is a hire purchase system? (2)

3.1.3 What is a hire purchase system? (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 of unit prices of these options. (2)

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

3.3.3 If Tony buys a hotdog and a coldrink, how much more will he pay? (2) [9]

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web these ions are called spectator ions because they do not participate in the actual reaction canceling the spectator ions gives the net ionic equation which shows only those species that participate in the chemical reaction $2\text{Ag}^+ \text{aq}$ $\text{Cr}_2\text{O}_7^{2-} \text{aq}$ $\rightarrow \text{Ag}_2\text{Cr}_2\text{O}_7 \text{s}$ label 4 2 3

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net ionic equation $\text{H}^+\text{aq} + \text{HCO}_3^-\text{aq} \rightarrow \text{H}_2\text{O} + \text{CO}_2\text{g}$ here is a video on spectator ions
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