

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. (2)

2.4 How much more will the consumer pay for 600 kWh? (2)

[8]

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

[14]

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 break-even point. (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 the food and coldrink if Tony buys a hotdog and a coke? (2)

3.3.3 If Tony buys a hotdog and a coke, how much more will he pay for a Fanta? (2)

[24]

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Werner Ladewig,Rika Potgieter



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web a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector however translations are very useful in performing coordinate transformations i'll introduce the following terminology for the composite of a linear transformation and a translation definition let \mathbf{a} be a real matrix

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web any vector \mathbf{v} represented in \mathbf{b} can be transformed to a representation in \mathbf{c} as follows under the transformation of basis notice that the superscript on the transformation matrix \mathbf{m} and the subscript on the coordinate vector \mathbf{v} are the same and seemingly cancel leaving the remaining subscript

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web jun 28 2021 the transformation matrix between coordinate systems having differing orientations is called the rotation matrix this transforms the components of any vector with respect to one coordinate frame to the components with respect to a second coordinate frame rotated with respect to the first frame

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