## TAS-AMESA MATHS LITERACY REVIEW

## NSC 2022 - PAPER 1



## COLLECTIVE RESPONSE

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## QUESTION-BY-QUESTION REVIEW

## Detailed Analysis

O Look at each question with a proposed memo
$\bigcirc$ Analyse each question in terms of 5 categories:
$\checkmark$ Context
$\checkmark$ Layout
$\checkmark$ Taxonomy levels
$\checkmark$ Language
$\checkmark$ General comments


## QUESTION 1

Finance \& Data Handling (Short, mixed q's)

## QUESTION 1.1

Martha needs to buy school uniforms for her son and daughter. She compares the prices of three different stores as shown in TABLE 1 below.

TABLE 1: COST OF SCHOOL UNIFORMS AT THREE DIFFERENT STORES

| ITEMS | STORE A | STORE B | STORE C |
| :--- | :---: | :---: | :---: |
| White shirt | R110,00 for 2 | R44,99 each | R110,00 for 2 |
| Grey skirt | R163,00 for 2 | R54,99 each | R130,00 |
| Grey shorts | R186,00 | R39,99 | R99,95 |
| Grey school socks | R40,50 for 2 packs | R18,99 per pack | R89,99 for 3 packs |
| White school socks | R85,00 for 5 packs | R11,99 per pack | R85,99 for 5 packs |
| School shoes (girls) | R349,00 | R159,99 | R170,00 |
| School shoes (boys) | R318,00 | R169,99 | R275,00 |
| TOTAL | P | - | - |

[Adapted from www.news24.com/fin24/money/education]
NOTE: There are two pairs of socks in each pack.
Use TABLE 1 above to answer the questions that follow.

| CONTEXT |  | LAYOUT OF DIAGRAMS, TABLES, IMAGES |  | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
| X | Familiar | X | Accessible |  |
|  | Unfamiliar |  | Unaccessible |  |
| X | Authentic \& realistic | Comments: |  |  |
|  | Unauthentic \& unrealistic |  |  |  |
| Comments: |  |  |  |  |

### 1.1.1 Identify whether the prices given in TABLE 1 are numerical or categorical data. (2)

## PROPOSED MEMO

Numerical data

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| X 1: Knowing | X Accessible |  |
| 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |

### 1.1.2 Arrange, in ascending order, all the prices given for Store B. (2)

| PROPOSED MEMO |
| :---: |
| R11,99; R18,99; R39,99; R44,99; R54,99; R159,99; R169,99 |


| TAXONOMY LEVEL | LANGUAGE |  |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |
| 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

### 1.1.3 Name the store that sells the cheapest grey shorts. (2)

## PROPOSED MEMO

Store B

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| X 1: Knowing | X Accessible |  |
| 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |

### 1.1.4 Calculate the price for a pack of white school socks at Store C. (3)

|  | PROPOSED MEMO |
| :--- | :--- |
| 1 pack white school socks | $=$ R85,99 $\div 5$ packs |
|  | $=17,198$ |
|  | $\approx$ R17,20 |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| 1: Knowing | X Accessible | Many learners will us grey vs white socks |
| $\mathbf{X}$ 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |

### 1.1.5 Determine the missing value $P$, if Martha bought all the school items as advertised at Store A. (2)

## PROPOSED MEMO

$$
P=R 110,00+R 163,00+R 186,00+R 40,50+R 85,00+R 349,00+R 318,00
$$

$$
=\text { R1 251,50 }
$$

| TAXONOMY LEVEL | LANGUAGE |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |  |
| 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |  |  |
|  | 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |  |

### 1.1.6 The probability of selecting Store $\mathbf{C}$ to buy all the school items is 0,3333333333 .

(a) Define the term probability in the given context. (2)

## PROPOSED MEMO

Probability is the chance or likelihood of selecting Store C to buy all the school items.

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| X 1: Knowing | X Accessible | Many learners will not apply the definition to the context |
| 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts <br> 4: Reasoning \& reflecting | Comments: <br> Define the term probability in the given context |  |
| Comments: <br> Some reviewers believe that since the definition is asked to be given in context: <br> * Level 1 taxonomy level is not quite appropriate anymore, since learners need to first recall the definition - and then reflect and reason on the application to the context. Which would then possibly move the definition in context to a Taxonomy Level 4 question. <br> * The mark allocation should also be higher (perhaps 3 or 4 marks), since they are now applying the definition in context |  |  |

## 

(b) Write down this probability as a percentage rounded to the nearest whole number. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| Probability as $\%$ | $=0,3333333333 \times 100 \%$ |
|  | $=33,33333 \%$ |
|  | $\approx 33 \%$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
|  | 1: Knowing | $\mathbf{X}$ | Accessible |
| $\mathbf{X}$ | 2: Applying routine procedures in familiar contexts |  | Unaccessible |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |
| Basic calculation, but requires a conversion and rounding off |  |  |  |



## QUESTION 1

Finance \& Data Handling (Short, mixed q's)

## QUESTION 1.2

One of the many investment options in South Africa is the stokvel option. TABLE 2 below shows two stokvel plans (Plan A and Plan B) over a 24 -month period.

TABLE 2: TWO STOKVEL PLANS

| MT UNITED AFRICAN $\square$ STOMEM |  |
| :---: | :---: |
| PLAN A (MONTHLY FIXED TERM PLAN) | PLAN B (ONCE-OFF SAVING PLAN) |
| Choose how long you want to save for. | Choose how long you want to save for. |
| Saving period: 24 months | Saving period: 24 months |
| How much do you want to save monthly? | How much do you want to save onceoff? |
| 4. -1. |  |
| Monthly contributions: R2500 | Once-off amount: R60 000 |
| Total amount at the end of 24 months: R74 286,84 | Total amount at the end of 24 months: R92 065,71 |

[Adapted from https://uasv.co.za]
Use TABLE 2 above to answer the questions that follow.

| CONTEXT | LAYOUT OF DIAGRAMS, TABLES, IMAGES |  |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | Familiar | $\mathbf{X}$ | Accessible |
|  | Unfamiliar | Unaccessible |  |
| $\mathbf{X}$ | Authentic \& realistic | Comments: |  |
|  | Unauthentic \& unrealistic |  |  |
| Comments: |  |  |  |

### 1.2.1 Define investment in the given context. (2)

## PROPOSED MEMO

A stokvel investment is a pooled fund, whereby members contribute money with the aim of providing rotating credit to a different member each month.


### 1.2.2 Calculate the total contributions for Plan A over the 24-month period. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| Total contributions for Plan A | $=$ R2 $500 \times 24$ months |
|  | $=$ R60 000 |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

### 1.2.3 Calculate the interest earned if a person invests in Plan B over the 24 -month period. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| Interest earned for Plan B | $=$ R92 065,71-R60 000,00 |
|  | $=$ R32 065,71 |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

1.2.4 Determine how much more interest a person will earn investing in Plan $B$ compared to investing in Plan A over the same 24-month period. (2)

| PROPOSED MEMO |  |
| :---: | :---: |
| $\begin{aligned} \text { Interest earned for Plan A } & =\text { R74 286,84-R60 } 000 \text { (Q1.2.2) } \\ & =\text { R14 286,84 } \end{aligned}$ $\begin{aligned} \therefore \text { Plan B yields more interest than Plan A } & =\text { R32 065,71 (Q1.2.3) - R14 286,84 } \\ & =\text { R17 778,87 } \end{aligned}$ | $\begin{aligned} \text { Interest }(B) & =\text { R92 065,71 - R74 286,84 } \\ & =\text { R17 778,87 } \end{aligned}$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | 2: Applying routine procedures in familiar contexts |  |
|  | Accessible |  |  |
|  | Unaccessible |  |  |
| 4: Reasplying multi-step procedures in a variety of contexts | Comments: |  |  |
| Comments: |  |  |  |



## QUESTION 1

Finance \& Data Handling (Short, mixed q's)

## QUESTION 1.3

The graph shows (in cents/litre) the prices of three types of fuel in Gauteng for the first three months of 2022.

NOTE: 93 LRP = Lead Replacement Petrol 95 ULP = Unleaded Petrol
[Adapted from www.sapia.org.za]


Use the graph above to answer the questions that follow.

| CONTEXT |  | LAYOUT OF DIAGRAMS, TABLES, IMAGES |  | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
| X | Familiar | X | Accessible |  |
|  | Unfamiliar |  | Unaccessible |  |
| X | Authentic \& realistic | Comments: <br> The key for 'Diesel' could be more visible (very few dots in the key block) |  |  |
|  | Unauthentic \& unrealistic |  |  |  |
| Comments: |  |  |  |  |

### 1.3.1 Name the type of graph drawn above. (2)

## PROPOSED MEMO

Compound/multiple/triple bar graph

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible |$]$

### 1.3.2 Identify the type of fuel that cost the most in February 2022. (2)

| 95 ULP (Unleaded Petrol) | PROPOSED MEMO |
| :--- | :--- |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible |$]$

### 1.3.3 The price of diesel in March 2022 was $1955,28 \mathrm{c} / \mathrm{l}$.

Write this price in rand per litre. Round off your answer to the nearest R0,50. (3)

|  | PROPOSED MEMO |
| :--- | :--- |
| $1955,28 \mathrm{c} \div 100$ | $=19,5528$ |
|  | $=$ R19,55 |
|  | $\approx$ R19,50 |
| $\therefore$ R19,50/l |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| 1: Knowing | X Accessible | Many candidates will struggle to round off to the nearest R0,50 |
| $\mathbf{X}$ 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: <br> Basic calculation, but requires a conversion and rounding off |  |  |



## QUESTION 2

## QUESTION 2.1

The information below shows a summary of Bomvana's Vehicle and Household Insurance Policy.


Use the information to answer the questions that follow.

| CONTEXT |  |
| :---: | :---: |
|  | Familiar |
| X | Unfamiliar |
| X | Authentic \& realistic |
|  | Unauthentic \& unrealistic |
| Comments: <br> Most RSA citizens don't have 4 cars <br> Bias question to rural learners - they would not be able to relate to the insurance context |  |
| LAYOUT OF DIAGRAMS, TABLES, IMAGES |  |
| X | Accessible |
|  | Unaccessible |
| Comments: |  |
| GENERAL COMMENTS |  |
| Insurance is not explicitly defined as a topic in the CAPS curriculum. Yes, it does form part of financial documents, but it might be a bit unfair to have a whole question based on insurance if many learners have no point of reference or exposure to how insurance, premiums and excess work. <br> Clarity is needed as to the depth that insurance needs to be taught in the classroom? |  |


[Adapted from miway.co.za]

### 2.1.1 Write down the policy number of Bomvana's insurance policy. (2)

| Policy number: 23388350 | PROPOSED MEMO |
| :--- | :--- |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible |
| 3: Applying multi-step procedures in a variety of contexts | Comments: | Some learners may confuse the <br> client number with the policy <br> number. |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |



### 2.1.2 Determine the missing value $A$, the monthly premium for the VW Polo. (4)

## PROPOSED MEMO

```
R7,16 + R200,41 + R520,41 + R133,16 + A + R201,79 + R23,30 + R9,07 - R266,15 = R2 184,21
R1 095,30 + A - R266,15 = R2 184,21
R829,15 + A = R2 184,21
A = R2 184,21 - R829,15
\thereforeA=R1 355,06
```

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | 2: Applying routine procedures in familiar contexts |  |
|  | Accessible | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

2.1.3 Bomvana qualifies for a discount on his insurance premiums as he has insured many items. Calculate the percentage discount that he receives if the total monthly premium before the discount was R2 450,36. (3)

| PROPOSED MEMO |  |
| :--- | :--- |
| discount | $=\frac{\mathrm{R} 266,15}{\mathrm{R} 2450,36} \times 100 \%$ |
|  | $=10,86 \%$ |


| TAXONOMY LEVEL |  | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: |
| 1: Knowing | X | Accessible | Learners may struggle to remember the \% discount formula as it wasn't given. |
| $X \quad$ 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

2.1.4 Bomvana was involved in a motor vehicle accident during July 2022. The quotation for damages from the panel beaters was R43 520,00.

Determine the amount the insurance company will pay the panel beaters. (2)

## PROPOSED MEMO

Amount paid $=$ R43 520,00 - R7 000,00
= R36 520

| TAXONOMY LEVEL |  |  | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
|  | 1: Knowing |  | Accessible | Since this context is unfamiliar to so many learners, many would not know what the excess is and how to work with it. |
| X | 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: <br> Wording should read perhaps: 'Determine how much money the insurance company will pay out for the repairs to the car.' |  |  |
|  | 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |  |

2.1.5 Calculate the amount of VAT included in the total monthly premium. (3)

## PROPOSED MEMO

Total monthly premium excl. VAT $=\frac{\mathrm{R} 2184,21}{1,15}$
= R1 899,31
$\therefore$ Amount of VAT $=$ R2 184,21-R1 899,31
$=\mathrm{R} 284,90$

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | 2: Applying routine procedures in familiar contexts |  |
|  | Unaccessible |  |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

### 2.1.6 The premium for the Toyota Corolla is much lower than that of the VW Polo.

 Give ONE possible reason for this big difference in the premium amount. (2)
## PROPOSED MEMO

The Toyota Corolla is an older car. OR
VW Polo is a popular car for young adults, so it is very likely to be involved in an accident. OR
Polo TSI is more expensive than Toyota. OR
Toyota Corolla is less likely to be stolen. Research has suggested the VW Polo's are targets for theft.
(Any reasonable explanation)

| TAXONOMY LEVEL | LANGUAGE |  |  |
| :--- | :--- | :--- | :--- |
| 1: Knowing | $\mathbf{X}$ | Accessible |  |
| 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |  |
| $\mathbf{X}$ | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

### 2.1.7 Bomvana pays a MiHome premium for household content cover to the value of R200 $\mathbf{0 0 0}$.

After the household contents were evaluated for insurance purposes, he bought an additional lounge suite.
Explain how the purchase of this new item will affect his MiHome content premium. (2)

## PROPOSED MEMO

The value of his household contents has increased with the purchase of the new lounge suite, so his MiHome content premium will increase.

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
|  | 1: Knowing | $\mathbf{X}$ | Accessible |
| 2: Applying routine procedures in familiar contexts |  | Unaccessible | Do learners actually understand the <br> concept of insurance premiums? |
| 3: Applying multi-step procedures in a variety of contexts | Comments: | Is it in the scope of the curriculum? |  |
| $\mathbf{X}$ | 4: Reasoning \& reflecting |  | More clarity is needed as to whether <br> insurance must be taught as a <br> Comments: |

## QUESTION 2.2

The sanitation tariffs for Johannesburg and Cape Town are presented in TABLE 3.
Johannesburg uses the area of a property to determine the sanitation bill. Cape Town uses a percentage of the total water usage to determine the sanitation bill (the same way as they calculate the water bill).
TABLE 3 shows the tariffs of Johannesburg (excluding VAT) and Cape Town (including VAT).

TABLE 3: SANITATION TARIFFS FOR JOHANNESBURG AND CAPE TOWN

| JOHANNESBURG: SANITATION TARIFFS - DOMESTIC (VAT excl.) |  |  |  |
| :---: | :---: | :---: | :---: |
|  | $\checkmark$ | Up to and including $300 \mathrm{~m}^{2}$ | R228,06 |
|  | $\bigcirc$ | Larger than $300 \mathrm{~m}^{2}$ to $1000 \mathrm{~m}^{2}$ | R443,96 |
|  | - | Larger than $1000 \mathrm{~m}^{2}$ to $2000 \mathrm{~m}^{2}$ | R671,63 |
|  | $\checkmark$ | Larger than $2000 \mathrm{~m}^{2}$ | R967,71 |


| CAPE TOWN: SANITATION TARIFFS - DOMESTIC (VAT incl.) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | USAGE | TARIFF | INCREASE FROM PREVIOUS |
|  | $\checkmark$ | 0-4,2 kl | R16,03 per kl | R0,66 increase per kl |
|  | $\checkmark$ | 4,2-7,35 kl | R22,02 per kl | R0,91 increase per kl |
|  | $\bigcirc$ | 7,35-24,5 kl | R30,92 per kl | R1,28 increase per kl |
|  | $\bigcirc$ | 24,5-35 kl | R48,65 per k $\ell$ | R2,01 increase per kl |

[Adapted from www.pikitup.co.za and www.capetown.gov.za]
NOTE: Sanitation refers to waste water that is drained from a household.

TABLE 3: SANITATION TARIFFS FOR JOHANNESBURG AND CAPE TOWN

| JOHANNESBURG: SANITATION TARIFFS - DOMESTIC (VAT excl.) |  |  |  |
| :---: | :---: | :---: | :---: |
|  | $\bigcirc$ | Up to and including $300 \mathrm{~m}^{2}$ | R228,06 |
|  | $\checkmark$ | Larger than $300 \mathrm{~m}^{2}$ to $1000 \mathrm{~m}^{2}$ | R443,96 |
|  | $\checkmark$ | Larger than $1000 \mathrm{~m}^{2}$ to $2000 \mathrm{~m}^{2}$ | R671,63 |
|  | $\bigcirc$ | Larger than $2000 \mathrm{~m}^{2}$ | R967,71 |


| CAPE TOWN: SANITATION TARIFFS - DOMESTIC (VAT incl.) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | USAGE | TARIFF | INCREASE FROM PREVIOUS |
|  | $\checkmark$ | $0-4,2 \mathrm{kl}$ | R16,03 per kl | R0,66 increase per kl |
|  | $\bigcirc$ | 4,2-7,35 kl | R22,02 per kl | R0,91 increase per kl |
|  | $\bigcirc$ | 7,35-24,5 kl | R30,92 per kl | R1,28 increase per kl |
|  | $\bigcirc$ | 24,5-35 kl | R48,65 per kl | R2,01 increase per kl |

[Adapted from www.pikitup.co.za and www.capetown.gov.za]
NOTE: Sanitation refers to waste water that is drained from a household.
Use the information above to answer the questions that follow.

| CONTEXT |  | LAYOUT OF DIAGRAMS, TABLES, IMAGES |  | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
|  | Familiar |  | Accessible | Stepped tariffs are a challenge for many learners <br> - now added additional complications <br> e.g. property size vs range of $\boldsymbol{k l}$ usage <br> VAT excl. vs VAT incl. <br> Current vs increased tariffs <br> Learners lost time due to confusion. <br> Too many layers of information and complexity for learners to work through in an exam situation. |
| X | Unfamiliar | X | Unaccessible |  |
| X | Authentic \& realistic | Comments: <br> The wording information and the tables should be split between Johannesburg and Cape Town. |  |  |
|  | Unauthentic \& unrealistic |  |  |  |
|  | ments: |  |  |  |
|  | tation vs Water usage would use learners (especially since many 't have toilets). |  | ange of 'Usage' for Cape Town did not y show including vs excluding $k l$ values. |  |

### 2.2.1 Write down, to the nearest ten cents and excluding VAT, the cost for sanitation in Johannesburg if a property is $175 \mathrm{~m}^{2}$. (2)

## PROPOSED MEMO

Johannesburg sanitation for $175 \mathrm{~m}^{2}$ property $=$ R228,06 excl. VAT
$\approx$ R228,10 excl. VAT

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing |  | Accessible |
|  | 2: Applying routine procedures in familiar contexts | $\mathbf{X}$ | Unaccessible | \(\left.\begin{array}{l}Square meter context confused <br>

many learners .\end{array}\right]\).

### 2.2.2 Calculate the cost for $4,1 \mathrm{kl}$ sanitation in Cape Town before the increase. (4)

|  | PROPOSED MEMO |
| :--- | :--- |
| Price per $\mathrm{k} \ell$ before increase $=\mathrm{R} 16,03-\mathrm{R} 0,66=\mathrm{R} 15,37$ |  |
| Price for $4,1 \mathrm{k} \ell=\mathrm{R} 15,37 \times 4,1=\mathrm{R} 63,02$ |  |


|  | TAXONOMY LEVEL |  | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
|  | 1: Knowing |  | Accessible | Since the table didn't clearly state whether the 'tariff' was current, increased, old or new - learners did not know which values to use. <br> Also, there was confusion as to whether the values given as the tariff where already including the increase? <br> Not many learners will get the full 4 marks. |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |
| X | 3: Applying multi-step procedures in a variety of contexts | Comments: <br> Wording could perhaps have been: Calculate the tariff cost before the increase <br> Question \& table unclear. |  |  |
|  | 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |  |
|  |  |  |  |  |

### 2.2.3 Mr Jones lives in Johannesburg and Ms Brown lives in Cape Town. They both own a property

 with an area of $550 \mathrm{~m}^{2}$ and each was billed $22 \mathrm{k} \ell$ sanitation.Use the table above to determine the difference in the cost of sanitation for the two properties. (8)

| PROPOSED MEMO |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Mr Jones - Johannesburg: $550 \mathrm{~m}^{2}$ | Ms Brown - Cape Town: 22 kl |  |  |  |
| Cost in sanitation $=$ R443,96 excl. VAT | Usage | Tariff | Range | Cost |
| VAT on cost $=15 \% \times$ R443,96 | $0-4,2 \mathrm{kl}$ | R16,03 / kl | $4,2-0=4,2 \mathrm{kl}$ | $4,2 \mathrm{kl} \times \mathrm{R} 16,03=\mathrm{R} 67,326$ |
| = R66,59 | 4,2-7,35 kl | R22,02 / kl | $7,35-4,2=3,15 \mathrm{kl}$ | $3,15 \mathrm{kl} \times \mathrm{R} 22,02=\mathrm{R} 69,363$ |
| $\begin{aligned} \text { Total cost incl. VAT } & =\mathrm{R} 443,96+\mathrm{R} 66,59 \\ & =\mathrm{R} 510,55 \end{aligned}$ | $7,35-24,5 \mathrm{kl}$ | R30,92 / kl | $24,5-7,35=17,15 \mathrm{k} \ell$ | $\begin{aligned} & (22-4,2-3,15) \mathrm{kl} \times \mathrm{R} 30,92 \\ & =14,65 \mathrm{kl} \times \mathrm{R} 30,92 \\ & =\mathrm{R} 452,978 \end{aligned}$ |
| $\begin{aligned} \text { Total cost incl. VAT } & =\text { R67,326 }+\mathrm{R} 69,363+\mathrm{R} 452,978 \\ & =R 589,667 \\ & \approx \mathrm{R} 589,67 \end{aligned}$ |  |  |  |  |
| $\begin{aligned} \therefore \text { Difference in sanitation costs (incl. VAT) } & =\text { R589,67-R510,55 } \\ & =\text { R79,12 } \end{aligned}$ |  |  |  |  |
|  |  |  |  |  |
| OR... |  |  |  |  |


| OR |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Mr Jones - Johannesburg: $550 \mathrm{~m}^{2}$ | Ms Brown - Cape Town: 22 kl |  |  |  |
| Cost in sanitation $=$ R443,96 excl. VAT | Usage | Tariff | Range | Cost |
|  | $0-4,2 \mathrm{kl}$ | R16,03 / kl | $4,2-0=4,2 \mathrm{kl}$ | 4,2 $\mathrm{kl} \times \mathrm{R} 16,03=\mathrm{R} 67,326$ |
|  | 4,2-7,35 kl | R22,02 / kl | $7,35-4,2=3,15 \mathrm{kl}$ | 3,15 kl $\times$ R22,02 $=$ R69,363 |
|  | $7,35-24,5 \mathrm{k} \ell$ | R30,92 / kl | $24,5-7,35=17,15 \mathrm{k} \ell$ | $\begin{aligned} & (22-4,2-3,15) \mathrm{kl} \times \mathrm{R} 30,92 \\ & =14,65 \mathrm{kl} \times \mathrm{R} 30,92 \\ & =\mathrm{R} 452,978 \end{aligned}$ |
|  | $\begin{aligned} \text { Total cost incl. VAT } & =\mathrm{R} 67,326+\mathrm{R} 69,363+\mathrm{R} 452,978 \\ & =\mathrm{R} 589,667 \\ & \approx \mathrm{R} 589,67 \end{aligned}$ |  |  |  |
| $\begin{aligned} \therefore \text { Difference in sanitation costs (excl. VAT) } & =\text { R512,76 }- \text { R443,96 } \\ & =\text { R68,80 } \end{aligned}$ |  |  |  |  |
|  |  |  |  |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| 1: Knowing | Accessible | Learners did not know whether to |
| 2: Applying routine procedures in familiar contexts | X Unaccessible | calculate using the VAT inclusive or |
| 3: Applying multi-step procedures in a variety of contexts | Comments: <br> The is not clear as to whether to use the current tariff or the increased tariff. |  |
| X 4: Reasoning \& reflecting |  | Marking will be tricky as learners |
| Comments: |  | will easily confuse VAT incl. vs VAT excl. values. |

### 2.2.4 Explain how the tariff system used in Johannesburg is beneficial to home owners in terms of water usage. (2)

## PROPOSED MEMO

A large range of sizes of properties fit within a category or bracket and are charged a fixed rate, irrespective of the number of kl used for sanitation. This is to the advantage of those who own properties that are close to the top end of each category/bracket.

The cost of water is fixed therefore people will have a fixed budget for water sanitation.
(Any reasonable explanation)

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
|  | 1: Knowing | X | Accessible |
| 2: Applying routine procedures in familiar contexts |  | Unaccessible | How can you make a clear deduction <br> when there is so much confusion?! |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |  |
| 4: Reasoning \& reflecting |  |  |  |



## QUESTION 3.1

TABLE 4 below shows the number of people per province working in TWO workplaces, namely Usual Workplace (UWP) and Work From Home (WFH) for the last quarter of 2020 and the first quarter of 2021.

TABLE 4: PEOPLE PER WORKPLACE BY PROVINCE

| PROVINCES | LAST QUARTER 2020 <br> (IN TEN THOUSANDS) |  |  | FIRST QUARTER 2021 <br> (IN TEN THOUSANDS) |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | UWP | WFH | Total | UWP | WFH | Total |
| Western Cape | 147,7 | 21,7 | $\mathbf{1 6 9 , 3}$ | 150,8 | 18,4 | $\mathbf{1 6 9 , 2}$ |
| Eastern Cape | 72,3 | 7,2 | $\mathbf{7 9 , 6}$ | 84,9 | 5,6 | $\mathbf{9 0 , 5}$ |
| Northern Cape | 24,2 | 0,5 | $\mathbf{2 4 , 7}$ | 23 | 0,5 | $\mathbf{2 3 , 5}$ |
| Free State | 56,9 | 3,2 | $\mathbf{6 0 , 1}$ | 53,4 | $\mathbf{2 , 9}$ | $\mathbf{5 6 , 3}$ |
| KwaZulu-Natal | 199,9 | 9,4 | $\mathbf{2 0 9 , 3}$ | 193,1 | 9,5 | $\mathbf{2 0 2 , 6}$ |
| North West | 46,4 | 2,4 | $\mathbf{4 8 , 8}$ | 51,3 | 3,1 | $\mathbf{5 4 , 4}$ |
| Gauteng | 342,4 | 36,6 | $\mathbf{3 7 9}$ | 365,9 | 33,1 | $\mathbf{3 9 9 , 0}$ |
| Mpumalanga | 93,8 | 5,8 | $\mathbf{9 9 , 6}$ | 98 | 5,7 | $\mathbf{1 0 3 , 7}$ |
| Limpopo | 91,4 | 6,3 | $\mathbf{9 7 , 7}$ | 95,6 | 4,7 | $\mathbf{1 0 0 , 3}$ |
| TOTAL | $\mathbf{1 0 7 5}$ | --- | $\mathbf{1 1 6 8 , \mathbf { 1 }}$ | $\mathbf{1 1 1 6}$ | $\mathbf{8 3 , 5}$ | $\mathbf{1 1 9 9 , 5}$ |

[Adapted from www.statssa.gov.za]
Use TABLE 4 above to answer the questions that follow.

|  | CONTEXT |  | YOUT OF DIA | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
|  | Familiar | X | Accessible | General error in the table - but doesn't affect the questions: <br> WC $2020=147,7+21,7=169,4$ <br> (Question paper says $=169, \underline{3}$ ) <br> EC $202=72,3+7,2=79,5$ <br> (Question paper says $=79, \underline{6}$ ) |
| X | Unfamiliar |  | Unaccessible |  |
| X | Authentic \& realistic | Comments: |  |  |
|  | Unauthentic \& unrealistic |  |  |  |
| Comments: |  |  |  |  |

### 3.1.1 Show how the total value of 83,5 for South Africa was calculated. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| WFH total | $=18,4+5,6+0,5+2,9+9,5+3,1+33,1+5,7+4,7$ |
|  | $=83,5$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | X | Unaccessible |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: <br> Question should be clearer i.e. Show <br> how the total value of 83,5 for $\mathbf{\text { WFH in }}$ |  |
| 4: Reasoning \& reflecting | First Quarter 2021 was calculated. |  |  |
| Comments: <br> Many reviewers felt it was a straight-forward, Level 1 <br> taxonomy question, as the values were given in the table and <br> the final answer as to what the total was. | Wording 'for South Africa' confusing, as <br> there was no RSA in table. |  |  |
| However, in the CAPs document, using the words 'Show how' <br> indicates Level 4 taxonomy. So perhaps the wording used <br> indicated more complexity that it actually was? |  |  |  |

### 3.1.2 Give ONE reason why the values in the table will differ from the actual workplace values. (2)

## PROPOSED MEMO

It is possible that some people had a "blended" working situation, working from home some days of the week and at the office other days.
People could be hired and fired after these values were collected.
Covid restrictions
Some people may work by moving from one place to another (mobile)
Values in the table were given 'in ten thousands' - so there might be rounding off of the actual values
(Any reasonable explanation)

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :--- | :--- | :--- |
| 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
| 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| $\mathbf{X}$ | 3: Applying multi-step procedures in a variety of contexts | Comments: |
| 4: Reasoning \& reflecting |  |  |

### 3.1.3 Write down the number of people who worked at their usual workplaces (UWP) in Gauteng during the first quarter of 2021. (2)

| PROPOSED MEMO |  |
| :--- | :--- |
| Gauteng - UWP - First Quarter 2021 | $=365,9$ (in ten thousands) |
|  | $=365,9 \times 10000$ |
|  | $=3659000$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | 2: Applying routine procedures in familiar contexts | Unaccessible |
| 3: Applying multi-step procedures in a variety of contexts | Comments: | Since the question asks for 'the <br> number of people', one must <br> convert 'in ten thousands' |  |
| 4: Reasoning \& reflecting |  | Learners expected to convert <br> Comments: |  |

### 3.1.4 Give ONE example of a job that cannot be done working from home. (2)

| PROPOSED MEMO |
| :--- |
| Farm worker |
| Factory worker / manufacturing workers |
| Teacher |
| Doctor / nurses / medical staff / emergency staff / health worker |
| Police force / defence force / firefighters |
| Drivers |
| Bank officials |
| Engineering |
| (Any reasonable answer) |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :--- | :--- | :--- |
| 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
| 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| $\mathbf{X}$ | 3: Applying multi-step procedures in a variety of contexts | Comments: |
| Comments: |  |  |

3.1.5 Calculate the mean number of people in the WFH category for South Africa in the last quarter of 2020. (4)

| PROPOSED MEMO |  |
| :---: | :---: |
| $\text { Mean - WFH - Last quarter } 2020$ $=\frac{93,10}{9}$ $=10,34444444 \text { (in ten thousands) }$ $\begin{aligned} \therefore \text { Mean number of people } & =10,34444444 \times 10000 \\ & =103444,444 \\ & \approx 103444 \end{aligned}$ | $\begin{aligned} & \text { Mean - WFH - Last quarter } \begin{aligned} 2020 & =\frac{1168,10-1075}{9} \\ & =\frac{93,10}{9} \\ & =10,34 \\ \therefore \text { Mean number of people } & =10,34444444 \times 10000 \\ & =103444,444 \\ & \approx 103444 \end{aligned} \end{aligned}$ |


| TAXONOMY LEVEL |  | LAN | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: |
| 1: Knowing | X | Accessible | Since the question asks for 'the number of people', one must convert 'in ten thousands' <br> Discrete data - so must round off to the nearest whole number |
| 2: Applying routine procedures in familiar contexts | UnaccessibleComments: |  |  |
| $\mathbf{X}$ 3: Applying multi-step procedures in a variety of contexts | Comments: |  |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

## QUESTION 3

## QUESTION 3.2

South Africa's unemployment rate increased from 34,4\% in Quarter 2 to 34,9\% in Quarter 3 of 2021
The number of unemployed people in Quarter 2 was 7,6 million, which is 183000 less than in Quarter 3.
The graph below indicates the unemployment rate for the different genders and the total for South Africa for the first three quarters of 2021.

UNEMPLOYMENT RATE FOR THE FIRST THREE QUARTERS OF 2021

[Adapted from Statistics South Africa]
Use the information above to answer the questions that follow.

|  | CONTEXT |  | ( ${ }^{\text {POUT }}$ OF DIAGRAMS, TABLES, IMAGES | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
| X | Familiar | X | Accessible |  |
|  | Unfamiliar |  | Unaccessible |  |
| X | Authentic \& realistic | Comments: <br> The key for 'RSA' could be more visible (very few dots in the block). |  |  |
|  | Unauthentic \& unrealistic |  |  |  |
| Comments: |  |  |  |  |

### 3.2.1 Write down the quarter which showed the highest rate of unemployed men. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| Highest rate of unemployed men $=$ Quarter 3 |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X}$ | Accessible |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible | Learners may write the \% and not <br> the quarter. |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |  |

### 3.2.2 Calculate the number of unemployed people in Quarter 3. (3)

|  | PROPOSED MEMO |
| :--- | :--- |
| Unemployed people in Quarter 3 | $=7,6$ million +183000 |
|  | $=7600000+183000$ |
|  | $=7783000$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| 1: Knowing | X Accessible |  |
| 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| $\mathbf{X}$ 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |



### 3.2.3 Determine the increase in percentage of unemployed women from Quarter 1 to Quarter 3 in 2021. (3)

| PROPOSED MEMO |  |  |
| :--- | :--- | :--- |
| Increase in \% unemployed women Q1 to Q3 | $\approx 37,6 \%-34 \%$ | OR |
|  | $\approx 3,6 \%$ | Increase |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :--- | :--- | :--- |
| 1: Knowing <br> 2: Applying routine procedures in familiar contexts | Accessible | Women's \% Q3 should align with <br> dotted lines for more accurate <br> reading. |
| 3: Applying multi-step procedures in a variety of contexts |  |  |
| 4: Reasoning \& reflecting | Comments: <br> Second language speakers may easily <br> confuse this wording to mean \% <br> increase, instead of calculating the <br> difference between the percentages. | Range of answers will need to be <br> awarded. |

### 3.2.4 The unemployment rate for Quarter 2 was $34,4 \%$.

Determine the number of people employed in South Africa during Quarter 2. (4)

| PROPOSED MEMO |  |  |
| :---: | :---: | :---: |
| Unemployment rate (\%) : Unemployed people (million) $\begin{aligned} 34,4 & : 7,6 \\ \frac{34,4}{34,4}: & : \frac{7,6}{34,4} \\ 1 & : 0,2209302326 \end{aligned}$ $\begin{aligned} \text { Employment rate (\%) } & =100 \%-34,4 \% \\ & =65,6 \% \end{aligned}$ $\begin{aligned} \therefore \text { Number of employed people (million) } & =65,6 \times 0,2209302326 \\ & =14,49302326 \\ & \approx 14,49 \text { million } \end{aligned}$ | OR | ```% : People 34,4% : 7 }60000 65,6% : ?``` $\begin{aligned} \text { Number of employed people } & =\frac{65,6}{34,4} \times 100 \\ & =14993023,26 \\ & \approx 14493023 \end{aligned}$ |


| TAXONOMY LEVEL |  | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: |
| 1: Knowing | X | Accessible | This is a 'heavy' question for only 4 marks - so mark allocation should be higher. |
| 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |
| X 3: Applying multi-step procedures in a variety of contexts | Comments: <br> Wording given requires a lot of thought. |  |  |
| X 4: Reasoning \& reflecting |  |  | Added complexity due to working in millions of people - so discrete date needs to be considered too. <br> Also a repetitive type of question in terms of working with discrete data. Will learners be penalized twice if they ignore that fact? |
| Comments: |  |  |  |
| Complex, multi-step question - Level 3 |  |  |  |
| Reasoning and no scaffolding - Level 4 |  |  |  |
| Perhaps the scope or breadth of the Level 4 Taxonomy Level should be widened to encompass higher cognitive level type questions (as above), that are not necessarily reasoning and reflecting, but those that require a fair amount of cognitive demand considering there is no scaffolding? |  |  |  |

## QUESTION 4

## Finance \& Data Handling (Integrated q's)

## QUESTION 4.1

Mr Louw, aged 53, earned an annual taxable income of R495 602 for the year ending 28 February 2022. He does not contribute to any medical aid.

Use the above information to answer the questions that follow.

| CONTEXT |  | LAYOUT OF DIAGRAMS, TABLES, IMAGES |  | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
| X | Familiar |  | Accessible |  |
| X | Unfamiliar | X | Unaccessible |  |
| X | Authentic \& realistic | Comments: <br> Rebate wording should not be under the table misleading. <br> Clarify if rebate is included in table values. <br> In the table, the 'monthly income' wording should be changed to 'monthly taxable income'. |  |  |
|  | Unauthentic \& unrealistic |  |  |  |
| Comments: <br> Tax is familiar, but presented in a very unfamiliar way |  |  |  |  |

### 4.1.1 The following formula can be used to calculate annual tax payable before the rebate:

## Annual Tax Payable before the rebate

= R115 $762+[36 \% \times($ annual taxable income -488700$)]$
Use this formula to calculate Mr Louw's annual tax payable before the rebate. (3)

| PROPOSED MEMO |  |
| ---: | :--- |
| Annual tax payable before the rebate | $=$ R115 $762+[36 \% \times($ annual taxable income -488700$)]$ |
|  | $=\mathrm{R} 115762+[36 \% \times(495602-488700)]$ |
|  | $=\mathrm{R} 115762+[36 \% \times 6902]$ |
|  | $=\mathrm{R} 115762+\mathrm{R} 2484,72$ |
|  | $=\mathrm{R} 118246,72$ |


| TAXONOMY LEVEL | LANGUAGE |  |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | 2: Applying routine procedures in familiar contexts | Accessible |
| 3: Applying multi-step procedures in a variety of contexts | Comments: | Candidates are used to be given the |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

4.1.2 Mr Louw feels that the monthly tax table is an easier option for him to calculate his monthly tax payable.

TABLE 5 below shows the monthly deductions for three income categories for the year ending 28 February 2022.

## TABLE 5: MONTHLY DEDUCTION TAX TABLE FOR THREE INCOME CATEGORIES FOR THE YEAR ENDING 28 FEBRUARY 2022

| Monthly income | Tax payable per age group |  |  |
| :---: | :---: | :---: | :---: |
|  | Under 65 | $\mathbf{6 5 - 7 4}$ | Over 75 |
| R41 241-R41 291 | $R 8473$ | $R 7723$ | $R 7473$ |
| R41 291-R41 342 | $R 8491$ | $R 7741$ | $R 7491$ |
| R41 342-R41 393 | $R 8510$ | $R 7760$ | $R 7510$ |

The monthly rebate for a person younger than 65 years old is R1 368,75.
Verify, showing ALL calculations, whether his monthly tax will be correct according to the monthly deduction table. (6)

## PROPOSED MEMO

Annual Tax Formula
Monthly tax payable before rebate $=$ R118 246,72 $($ Q4.1.1 $) \div 12$

$$
=\text { R9 853,89 }
$$

Monthly tax payable AFTER rebate $=$ R9 853,89-R1 368,75

$$
=\text { R8 485,14 }
$$

Monthly Tax Deduction Table
Monthly taxable income $=$ R495 $602 \div 12$

$$
=\text { R41 300,17 }
$$

Monthly Deduction Tax Table bracket: R41 292 - R41 342
Monthly tax for Under 65 years = R8 491
$\therefore$ Monthly tax will NOT be correct according to the monthly deduction tax table. OR . .

| Annual Tax | Monthly Tax |
| :---: | :---: |
| $\begin{aligned} \text { Annual Rebate } & =12 \times \text { R1 368,75 } \\ & =\text { R16 } 455 \end{aligned}$ | $\begin{aligned} \text { Monthly Tax Payable } & =\text { R101 821,72 } \div 12 \\ & =\text { R8 485,14 } \end{aligned}$ |
| $\begin{aligned} \text { Annual Tax Payable } & =\text { R118 246,72-R16 } 425 \\ & =\text { R101 821,72 } \end{aligned}$ | Monthly Taxable Income $=$ R495 $602 \div 12$ <br> R41 300,17 falls into (R41 292 - R41 342) |
|  | $\therefore$ Monthly Tax Payable $=$ R8 491 |
| $\therefore$ No, the monthly tax payable will be incorrect | OR |
| Monthly Tax From 411 Monthly Tax Before Rebate $=$ R118 246 72 $\cdot 12$ |  |
| Monthly Income Before Rebate $=$ R495 602 $\div 12 \quad=$ R9 853,89 |  |
| = R41 300,17 | $\therefore$ His monthly tax using the deduction table is incorrect. |
| Monthly Tax Before Rebate $=$ R8 $491+\mathrm{R1} 368,75$ |  |
| $=$ R9 859,75 |  |


4.1.3 Write down the probability of selecting a monthly tax amount of R8 473 for a person over 75 years from this monthly tax table. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| Probability of monthly tax $=$ R8 473 for over 75 years $=0 \%$ | OR $\quad$ Impossible |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

## QUESTION 4

Finance \& Data Handling (Integrated q's)

## QUESTION 4.2

The pie charts below compare the five best-selling vehicles in South Africa, America and Canada for 2021.
COMPARISON OF THE FIVE BEST-SELLING VEHICLES IN SOUTH AFRICA, AMERICA AND CANADA FOR 2021

[Adapted from www.driving.ca, www.forbes.com and www.businesslive.co.za]
Use the information above to answer the questions that follow.

| CONTEXT | LAYOUT OF DIAGRAMS, TABLES, IMAGES |  |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | Familiar | Unfamiliar | Accessible |
| $\mathbf{X}$ | Authentic \& realistic | Unaccessible |  |
|  | Unauthentic \& unrealistic | Comments: |  |
| Comments: | The key should only use stripes for one segment |  |  |



### 4.2.1 Write down, in words, the total number of vehicles sold in America. (2)

| PROPOSED MEMO |
| :--- |
| Vehicles sold in America $=2584176$ |
| $\therefore$ Two million, five hundred and eight-four thousand, one hundred and seventy-six |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

4.2.2 Express as a ratio in the form $\qquad$ _: $\qquad$ : , the number of Toyota RAV4s sold in America, Canada and South Africa respectively. (2)

| PROPOSED MEMO |  |  |
| :--- | :--- | :--- |
| Toyota Rav4's | Simplified | $\frac{40739}{36085}: \frac{61934}{36085}: \frac{36085}{36085}$ |
| America : Canada : South Africa |  | $=11,3: 1,72: 1$ |
| $407739: 61934: 36085$ |  |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | Accessible | Mark allocation incorrect as learners <br> need to read 3 things from the graph <br> - so it should have been 3 marks <br> (and not 2). |
|  | 2: Applying routine procedures in familiar contexts | $\mathbf{X}$ Unaccessible | Comments: |
| 3: Applying multi-step procedures in a variety of contexts | Come question should have indicated that <br> 4: Reasoning \& reflecting <br> there is no need to simplify e.g. 'express <br> as a ratio in unsimplified form ...' | Learners are taught to simplify <br> ratios, so many would have tried <br> and lost a lot of time. |  |

4.2.3 Write down the median number of the best-selling vehicles in South Africa. (2)

|  |
| :--- |
| South Africa |
| 16 426; 18 235; 19 077; 21 887; 36085 |
| $\therefore$ Median $=19077$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

### 4.2.4 Determine the number of Ford F-series vehicles sold in Canada. (3)

|  | $\quad$ PROPOSED MEMO |
| ---: | :--- |
| Ford F-series in Canada | $=357243-(51684+53757+61934+73467)$ |
|  | $=357243-240842$ |
|  | $=116401$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| 1: Knowing | X Accessible |  |
| $\mathbf{X}$ 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |

### 4.2.5 The interquartile range for the top 10 vehicles sold in South Africa is $\mathbf{7 6 6 9}$ and the value of Quartile 1 is 11408.

Calculate the value of Quartile 3. (4)

|  |
| :--- |
| IQR $=$ Q3 - Q1 |
| $7669=$ Q3 - 11408 |
| $7669+11408=$ Q3 |
| $\therefore$ Q3 $=19077$ |


| TAXONOMY LEVEL |  |  | LAN | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
|  | 1: Knowing | X | Accessible | Making Upper Quartile the subject will be a challenge for candidates |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible |  |
| X | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |  |
|  | 4: Reasoning \& reflecting |  |  |  |
| Comments: <br> Students need to know the formula, substitute, then perform opposite operations |  |  |  |  |
|  |  |  |  |  |

4.2.6 The inflation rate in America for 2021 was $7 \%$ and in 2020 it was $1,4 \%$. The price of a Ford F-series vehicle in 2022 is \$32 332.

It is stated that the price of the Ford F-series vehicle in 2019 was more than \$29800.
Verify, showing ALL calculations, whether this statement is valid. (6)

| PROPOSED MEMO |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2019 | 2020 | 2021 | 2022 |
|  | Price > \$29 800 | Inflation rate = 1,4\% | Inflation rate = 7\% | Price = \$32 332 |
| $\begin{aligned} \text { Price in } 2021 & =\frac{\$ 32332}{1,07} & \text { Price in } 2020 & =\frac{\$ 30216,82243}{1,014} \\ & =\$ 30216,82243 & & =\$ 29799,62764 \end{aligned}$ <br> $\therefore$ The statement is NOT valid as the Price in 2020 was NOT more than $\$ 29800$ OR |  |  |  |  |
| $\begin{aligned} \mathrm{Yr}_{1} & =29800+(29800 \times 0,014) \\ & =29800+417,2 \\ & =\$ 30217,20 \end{aligned}$ <br> This is slightly more than $\$ 32332 . \therefore$ The statement is invalid. |  |  | $\begin{aligned} \mathrm{Yr}_{2} & =30217,20+(30217,20 \times 0,07 \\ & =30217,20+2115,20 \\ & =\$ 32332,40 \end{aligned}$ |  |



### 4.2.7 Determine, as a percentage, the probability of purchasing a Ram Pickup in America. (3)

|  | PROPOSED MEMO |
| :--- | :--- |
| Probability (Ram Pickup in America) | $=\frac{569388}{2584176} \times 100 \%$ |
|  | $=22,03 \%$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| 1: Knowing | X Accessible |  |
| $\mathbf{X}$ 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |

## QUESTION 5

## Finance \& Data Handling (Integrated q's)

## QUESTION 5.1

During the 2008-2012 period, South Africa recorded an average growth rate of just over $2 \%$, largely due to the global economic recession.

Gauteng, KwaZulu-Natal and the Western Cape collectively contributed a significant portion of the country's growth. The graph below shows the contributions of these three provinces towards the different sectors.

## CONTRIBUTIONS OF THREE PROVINCES TO THE COUNTRY'S GROWTH



NOTE: A global economic recession leads to a drop in a country's economy.

Use the above information to answer the questions that follow.

| CONTEXT |  | LAYOUT OF DIAGRAMS, TABLES, IMAGES | GENERAL COMMENTS |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | Familiar | Accessible | The chart gives the impression that there is a <br> trend being studied instead of comparing <br> province performance per sector. |
| $\mathbf{X}$ | Authentic \& realistic | Unamiliar | Comments: <br> The key for Gauteng could be clearer. |
| Comments: | Need to have finer grid lines in order to more <br> accurately read off the values. | The line graph is not the most appropriate chart <br> to compare different provinces per category, the <br> multiple bar graphs should have been used <br> instead. |  |

5.1.1 Write down the province that contributed the most to the wholesale sector. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| Western Cape |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

### 5.1.2 The total amount contributed by the three provinces to agriculture was R8,3 billion. Determine which part of this amount Western Cape contributed. (4)

| PROPOSED MEMO |  |
| :--- | :--- |
| $3: 4: 4$   <br> $3+4+4=11$   <br> Western Cape $=\frac{4}{11} \times$ R8 300000000 Majority of learners would have written:  <br>  $=$ R3 018181818 Western Cape contribution $=4 \% \times$ R8,3 billion <br>    |  |


| TAXONOMY LEVEL |  | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: |
|  | 1: Knowing | Accessible | The application of ratio to solve this problem is not clear |
| X | 2: Applying routine procedures in familiar contexts | X Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: <br> Wording is unclear ... 'which part of this amount' - are they asking for the \% or Rand value? | If a ratio question off a graph - then is it authentic? |
| X | 4: Reasoning \& reflecting |  |  |
| Comments: <br> Reading off the graph and working with \% - Level 2 <br> Ratio off a graph \& then converting billions - Level 4 |  |  | How will this be marked? |
|  |  | Instructions regarding the form of the answer should have been given, to avoid confusion as to whether the word billion was permissible in the answer. | Is this representative as to how we teach graphs - i.e. it is a summary of data given for readers to quickly ascertain knowledge - now we are asking readers to calculate off a graph? <br> Most reviewers thought this was a very unfair question. |

5.1.3 Identify the sector in which KwaZulu-Natal made a $12 \%$ contribution. (2)

|  | PROPOSED MEMO |
| :--- | :--- |
| Transport sector |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

### 5.1.4 Name the sector that has the largest range. (2)

| PROPOSED MEMO |  |  |  |
| :---: | :---: | :---: | :---: |
| Finance sector OR |  |  |  |
| $\begin{aligned} \text { Finance } & =23-15 \\ & =8 \% \end{aligned}$ <br> $\therefore$ Finance has the largest range. | $\begin{aligned} \text { Transport } & =12-9 \\ & =3 \% \end{aligned}$ | $\begin{aligned} \text { Wholsesale } & =16-13 \\ & =3 \% \end{aligned}$ | $\begin{aligned} \text { Agriculture } & =4-3 \\ & =1 \% \end{aligned}$ |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: <br> Level depends on whether the student did some working out, or <br> just read off the graph. |  |  |  |

5.1.5 Name ONE province that made the most significant contribution towards the growth of most of the sectors. (2)

|  | PROPOSED MEMO |
| :--- | :---: |
| Western Cape |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | $\mathbf{X} \quad$ Accessible |  |
|  | 2: Applying routine procedures in familiar contexts | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
|  | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

## QUESTION 5

Finance \& Data Handling (Integrated q's)

## QUESTION 5.2

Ryan is a South African citizen who owns a company in South Africa and wants to buy shares in a company in Canada.
TABLE 6 shows the exchange rate for five countries on 17 March 2022.
TABLE 6: EXCHANGE RATE FOR FIVE COUNTRIES ON 17 MARCH 2022

| CURRENCY | UNITS PER ZAR | ZAR PER UNIT |
| :--- | :---: | :---: |
| Euro | 0,060673 | 16,480 |
| British pound | 0,050862 | 19,662 |
| Japanese yen | 7,9596 | 0,12565 |
| Canadian dollar | 0,084845 | 11,785 |
| Russian rouble | 6,97481 | 0,143373 |

[Adapted from www.xe.com/currencyconverter]
NOTE: a share is a unit of ownership of a company.
Use TABLE 6 to answer the questions that follow.

| CONTEXT | LAYOUT OF DIAGRAMS, TABLES, IMAGES |  |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | Unfamiliar | $\mathbf{X}$ | Accessible |
| $\mathbf{X}$ | Authentic \& realistic | Unaccessible | GENERAL COMMENTS |
|  | Unauthentic \& unrealistic | Comments: |  |
| Comments: |  |  |  |

### 5.2.1 Identify the currency which is the weakest against the rand. (2)

|  | PROPOSED MEMO |
| :--- | :---: |
| Japanese Yen |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| 1: Knowing | $\mathbf{X}$ | Accessible | 'Units per ZAR' and 'ZAR per unit' <br> are unusual ways of representing <br> exchange rate currencies - many <br> learners may struggled with the <br> format. |
| 2: Applying routine procedures in familiar contexts | Unaccessible | Comments: | Learners used to exchange rates <br> being given as ratios, so they battled <br> with the table. |
| $\mathbf{X}$4: Reasoning \& reflecting <br> Comments: |  |  |  |

### 5.2.2 Show how the Russian rouble of $\mathbf{0 , 1 4 3 3 7 3}$ ZAR per unit was determined. (2)



|  | PROPOSED MEMO |
| :---: | :---: |
| $\begin{aligned} \text { ZAR per unit } & =\frac{1 \text { ZAR }}{6,97481 \text { Russian rouble }} \\ & =0,143373 \end{aligned}$ |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| $\mathbf{X}$ | 1: Knowing | 2: Applying routine procedures in familiar contexts | X |
|  | Accessible | Unaccessible |  |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |  |
| Comments: |  |  |  |

5.2.3 Ryan decides to invest R1 $\mathbf{2 3 0} \mathbf{0 0 0}$ in shares in a Canadian company.

Convert R1 230000 into Canadian dollar (CAD).

| PROPOSED MEMO |  |  |
| ---: | ---: | ---: |
| Canadian dollars $=\frac{\text { R1 230 000 }}{11,785 \text { CAD }}$ | OR | Canadian dollars (CAD) $=$ R1 230 000 $\times 0,084845$ |
|  | $=104369,96$ CAD |  |


| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |
| :---: | :---: | :---: |
| 1: Knowing | X Accessible | Rounding-off discrepancy depending on which way you are converting, i.e. 104 369,96 vs 104 359,35 is a big difference in answers. |
| $\mathbf{X}$ 2: Applying routine procedures in familiar contexts | Unaccessible |  |
| 3: Applying multi-step procedures in a variety of contexts | Comments: |  |
| 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |

### 5.2.4 Give ONE reason why you would motivate Ryan to invest in a Canadian company.

## PROPOSED MEMO

The return on his investment would be profitable.
Canada is a well-developed country, with a good infrastructure and strong economy.
The Canadian economy is stable
Ryan may benefit from buying shares at low price and selling them for a higher price later.

| TAXONOMY LEVEL | LANGUAGE | GENERAL COMMENTS |  |
| :--- | :--- | :--- | :--- |
| 1: Knowing | $\mathbf{X} \quad$ Accessible | Strange question as the exchange <br> rate doesn't initially point to <br> investment, since the ZAR is quite <br> weak against the CAD. |  |
| 2: Applying routine procedures in familiar contexts | Unaccessible | 3: Applying multi-step procedures in a variety of contexts | Comments: |
| $\mathbf{X}$ | 4: Reasoning \& reflecting |  |  |
| Comments: |  |  |  |

### 5.2.5 After 2 years and 8 months, Ryan sold his shares and received a final amount of R1529360. In South Africa Ryan would have received an interest rate of 8,1\%, compounded annually, for 2 years and 8 months. <br> Ryan stated that he earned more than R14 000 return on his foreign investment compared to a potential South African investment. <br> Verify, showing ALL calculations, whether Ryan's statement is valid. (8)

| PROPOSED MEMO |  |  |
| :---: | :---: | :---: |
| Foreign investment <br> Original investment = R1 230000 <br> Matured investment = R1 529360 after 2 years and 8 months $\begin{aligned} \text { Total after year } 1 & =\text { R1 } 230000+\text { R99 } 630 \\ & =\text { R1 } 329630 \end{aligned}$ $\begin{aligned} \text { Interest after year } 2 & =8,1 \% \times \text { R1 } 329630 \\ & =\text { R107 700,03 } \end{aligned}$ $\begin{aligned} \text { Total after year } 2 & =\text { R1 } 329630+\text { R107 700,03 } \\ & =\text { R1 } 437330,03 \end{aligned}$ $\begin{aligned} \text { Interest after } 8 \text { months } & =\frac{8}{12} \times 8,1 \% \times \text { R1 } 437330,03 \\ & =\text { R77 615,82 } \end{aligned}$ $\begin{aligned} \text { Total after } 2 \text { years and } 8 \text { months } & =\text { R1 } 437330,03+\text { R77 615,82 } \\ & =\text { R1 } 514945,85 \end{aligned}$ <br> Difference in totals between foreign and local investment $\begin{aligned} & =\text { R1 } 529360-\text { R1 } 514 \text { 945,85 } \\ & =\text { R14 414,15 } \end{aligned}$ <br> $\therefore$ Ryan did earn more than R14 000 on his foreign investment | OR | Foreign investment <br> Original investment = R1 230000 <br> Matured investment = R1 529360 after 2 years and 8 months $\begin{aligned} \therefore \text { Interest earned } & =\text { R1 } 529360-\text { R1 } 230000 \\ & =\text { R299 } 360 \end{aligned}$ <br> Local investment $\begin{aligned} \text { Interest after year } 1 & =8,1 \% \times \text { R1 } 230000 \\ & =\text { R99 } 630 \end{aligned}$ $\begin{aligned} \text { Total after year } 1 & =\text { R1 } 230000+\text { R99 } 630 \\ & =\text { R1 } 329630 \end{aligned}$ $\begin{aligned} \text { Interest after year } 2 & =8,1 \% \times \text { R1 } 329630 \\ & =\text { R107 700,03 } \end{aligned}$ $\begin{aligned} \text { Total after year } 2 & =\text { R1 } 329630+\text { R107 700,03 } \\ & =\text { R1 } 437330,03 \end{aligned}$ $\begin{aligned} & \begin{aligned} \text { Interest after } 8 \text { months } & =\frac{8}{12} \times 8,1 \% \times \text { R1 } 437330,03 \\ & =\text { R77 615,82 } \end{aligned} \\ & \begin{aligned} & \text { Total interest }=\text { R99 } 630+\text { R107 700,03 }+ \text { R77 615,82 } \\ &= \\ & \text { R284 945,85 } \end{aligned} \end{aligned}$ <br> Difference in interest between foreign and local investment $\begin{aligned} & =\text { R299 360 - R284 945,85 } \\ & =\text { R14 414,15 } \end{aligned}$ <br> $\therefore$ Ryan did earn more than R14 000 on his foreign investment |


| TAXONOMY LEVEL |  | LANGUAGE |  | GENERAL COMMENTS |
| :---: | :---: | :---: | :---: | :---: |
|  | 1: Knowing | X | Accessible | for average learners to |
|  | 2: Applying routine procedures in familiar contexts |  | Unaccessible | answer a question like this at the |
|  | 3: Applying multi-step procedures in a variety of contexts | Comments: <br> Wording ambiguous ... 'Ryan earned more than R14 000 on foreign investment ...' <br> Perhaps it could have read: <br> 'Show how this difference of more than R14 000 is found between investing in Canada and South Africa.' |  |  |
| X | 4: Reasoning \& reflecting |  |  | Mark allocation scares learners break it down. |
| Comments: |  |  |  | There will be a difference in answers for Q5.2.5 between the English vs Afrikaans question paper. <br> Learners need more exposure to complex interest questions involving months (that might not necessarily convert to easy fractions). <br> Perhaps clarification is needed in the CAPS document as to the level of complexity that is allowed for interest? |



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