

## Question 1

## Vraag 1

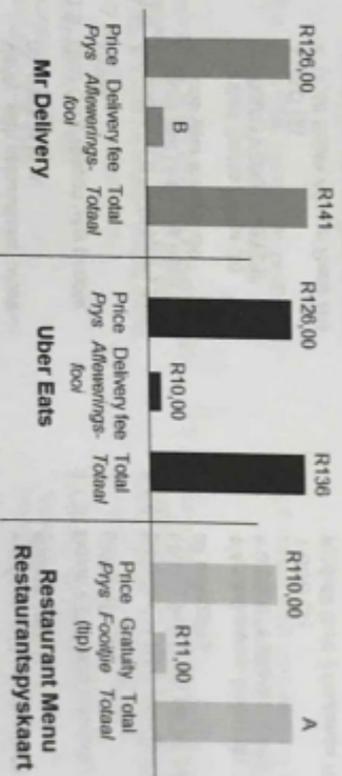
1.1 The information below represents three meal options for the same meal.

1.1 Die inligting hieronder verteenwoordig drie maaltyd-opsies vir dieselfde maaltyd.

- Mr Delivery
- Uber Eats
- Restaurant menu

- Mr Delivery
- Uber Eats
- Restaurant-spyskaart

Graphs comparing the total charges of the same meal/  
Grafieke wat die totale pryse van dieselfde maaltyd vergelyk



(Adapted from [www.graphic924.co.za/](http://www.graphic924.co.za/))

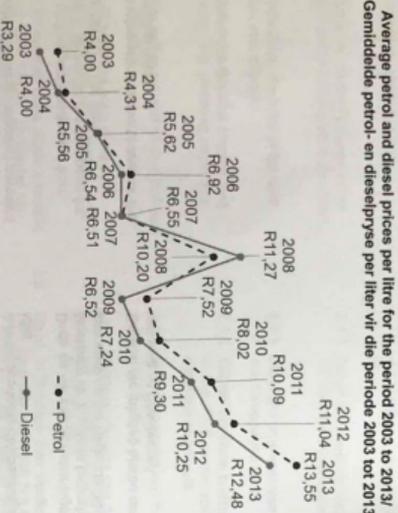
(Aangepas uit [www.graphic924.co.za/](http://www.graphic924.co.za/))

Use the above information to answer the questions that follow.

Gebruik die inligting hierbo om die vrae wat volg, te beantwoord.

- 1.1.1 Identify the type of graph used. (2)
- 1.1.2 Calculate **A**, the total for the restaurant menu. (2)
- 1.1.3 Calculate **B**, the delivery fee for Mr Delivery. (2)
- 1.1.4 Write down the difference between the highest price and the lowest price of the meal, excluding delivery/gratuity. (2)
- 1.1.5 If the delivery fee for Uber Eats increases by 6,32%, calculate (in rand) the increase in the delivery fee. (2)
- 1.1.1 Identifiseer die tipe grafiek wat gebruik is. (2)
- 1.1.2 Bereken **A**, die totaal vir die restaurantspyskaart. (2)
- 1.1.3 Bereken **B**, die afleweringssfooi vir Mr Delivery. (2)
- 1.1.4 Skryf die verskil neer tussen die hoogste prys en die laagste prys van die maaltyd, die aflewering/fooiïe uitgesluit. (2)
- 1.1.5 Indien die afleweringssfooi vir Uber Eats met 6,32% styg, bereken (in rand) die verhoging van die afleweringssfooi. (2)

- 1.2 The two line graphs below represent the average petrol and diesel prices per litre for the period 2003 to 2013.



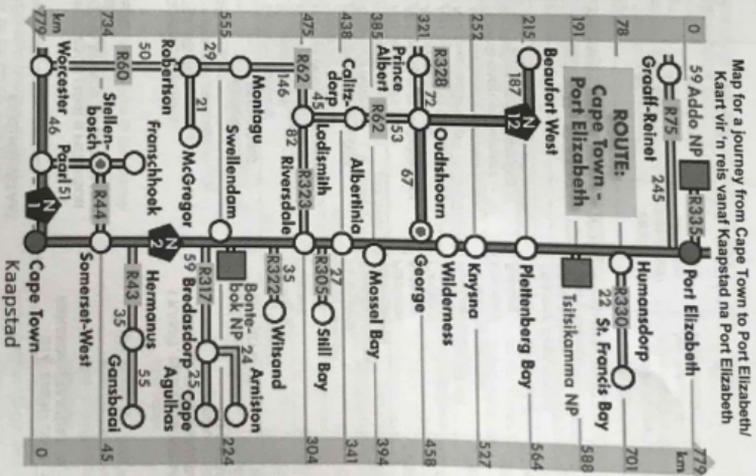
[Adapted from [www.cars.co.za](http://www.cars.co.za)]

[Aangepas uit [www.cars.co.za](http://www.cars.co.za)]

- Use the above information to answer the questions that follow.
- 1.2.1 Write down the year in which the diesel price was higher than the petrol price.
- 1.2.2 Calculate the difference between the price of petrol in 2012 and in 2004.
- 1.2.3 Determine the TWO decimal places, the unit ratio of the diesel price in 2005 to the diesel price in 2013.
- 1.2.4 Calculate the total cost of 13,45 litres of petrol in 2003.
- 1.2.5 Write down the year which the difference between the petrol price and the diesel price was less than five cents.
- 1.2.1 Skryf die jaar neer toe die dieselprijs hoër as die petrolprijs was.
- 1.2.2 Berekem die verskil tussen die pryse van petrol in 2012 en in 2004.
- 1.2.3 Bepaal, tot TWEE desimale plekke, die eenheidsverhouding van die dieselprijs in 2005 tot die dieselprijs in 2013.
- 1.2.4 Berekem die totale koste van 13,45 liter petrol in 2003.
- 1.2.5 Skryf die jaar neer toe die verskil tussen die petrolprijs en die dieselprijs minder as vyf sent was.

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- 1.3 Devashni will be travelling from Cape Town to Port Elizabeth to visit her grandmother. She will use the map below to plan her journey.



[Source: [www.southafrica.travel.net](http://www.southafrica.travel.net)]

[Bron: [www.southafrica.travel.net](http://www.southafrica.travel.net)]

Use the above map to answer the questions that follow.

Gebruik die kaart hierbo om die vrae wat volg, te beantwoord.

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- 1.3 Devashni gaan vanaf Kaapstad na Port Elizabeth reis om by haar ouma te kuier. Sy sal die kaart hieronder gebruik om haar reis te beplan.

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1.3.1 Identify the type of map used above.

1.3.1 Identifiseer die tipe kaart wat hierbo gebruik is.

(2)

1.3.2 Determine, in metres, the actual distance between Cape Town and Port Elizabeth.

1.3.2 Bepaal, in meter, die werklike afstand tussen Kaapstad en Port Elizabeth.

(2)

1.3.3 Along the route Devastah will visit a friend in Qudusthoom. At Riversdale she will take a detour via the R323 to Qudusthoom.

1.3.3 Devashtsal sal op die roete by haar vriend in Qudusthoom kuier. Sy sal by Riversdale 'n ompad via die R323 na Qudusthoom neem.

(a) Name the towns she will pass when traveling from Riversdale to Qudusthoom.

(a) Noem die dorpe waar sy sal verby ry wanneer sy vanaf Riversdale na Qudusthoom reis.

(2)

(b) Calculate the total distance she will travel from Riversdale to Qudusthoom.

(b) Bereken die totale afstand wat sy vanaf Riversdale na Qudusthoom sal reis.

(2)

## Question 2

## Vraag 2

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2.1 Dean Peterson has a clothing account at Markham clothing store. At Markham a customer can choose either a 6-month or a 12-month revolving (ongoing) payment option.

2.1 Dean Peterson het 'n klererekening by Markham-klerewinkel. By Markham kan 'n klant of 'n 6-maande- of 'n 12-maande- wendel(duurlopende)-betalingsoptie kies.

Dean's clothing store statement from Markham is shown on the next page for a certain period of the year.

Dean se klerewinkelrekeningstaat van Markham vir 'n sekere tydperk van die jaar word op die volgende bladsy getoon.

Use the information above to answer the questions that follow.

Gebruik die inligting hierbo om die vrae wat volg, te beantwoord.

Markham account statement of D Peterson/  
Markham-rekeningstaat van D PetersonMARKHAM ACCOUNT/  
REKENINGSTAATMR D PETERSON / MNR D PETERSON  
27 SECOND AVENUE / TWEDELAAN 27  
FOURIEBURG  
VERBODENBURG  
8601STATEMENT DATE: 15 JAN 2019/  
REKENINGSTAATDATUM: 15 JAN 2019

1 CARD EXCLUSIVE OFFERS OVER 20 RETAIL BRANDS		1 KAART EKSKLUSIEWE AANBIEDINGS MEER AS 20 KLEINHANDELSMERKE	
All customers are automatically TFC REWARDS members		Rewards holders are automatically TFC REWARDS members	
DATE / DATUM	REFERENCE / VERWYSING	DESCRIPTION / BESKRYWING	AMOUNT / BEDRAG
31 DEC / 31 DES	6 months revolving / 6 maande wendel	Opening balance / Opening saldo	101,99
	HO FNB electronic payment / HO FNB elektroniese betaling	Payment / Betaling	101,99
	Installation 0,00 due / Installasie 0,00 verskuldig	Closing balance / Sluitingsaldo	0,00
	12 months revolving / 12 maande wendel	Opening balance / Opening saldo	1 215,36
17 DEC / 17 DES	ASU Zeevremachi Mall / ASU Zeevremachi Mall	Purchase / Aankope	3 750,00
19 DEC / 19 DES	ASU Zeevremachi Mall / ASU Zeevremachi Mall	Purchase / Aankope	4 000,00
19 DEC / 19 DES	ASU Zeevremachi Mall / ASU Zeevremachi Mall	Purchase returned / Aankope teruggegee	3 750,00
31 DEC / 31 DES	HO FNB electronic payment / HO FNB elektroniese betaling	Payment / Betaling	698,01
12 JAN / 12 JAN		My father's My kombuis / My vader se kombuis	26,70
12 JAN / 12 JAN		Kids only / Sigs kinders	20,00
		Interest / Rente	92,66
	Instalment 440,00 / Paalamment 440,00	Closing balance / Sluitingsaldo	4 656,71

My current credit allocation / My huidige krediet-toewysing	What can I spend? / Wat kan ek spandeer?	What is my instalment? / Wat is my paalamment?	By how much am I in arrears? / Met hoeveel is ek agterstallig?	What is my balance? / What is my balance? / What is my balance?
8 800,00	4 143,29	440,00	0,00	4 656,71
CURRENT / LOPEND	30 DAYS / 30 DAE	60 DAYS / 60 DAE	90 DAYS / 90 DAE	TOTAL DUE (BY 15 JAN) / TOTAAL VERSKULDIG (TEEN 15 JAN)
39,37	0,00	0,00	0,00	39,37

[Adapted from a Markham account]

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- 2.1.1 Write down the total balance owing on Dean's account.
- 2.1.2 Give the full date on which the current instalment is due.
- 2.1.3 State the opening balance of the 12-month revolving account option.
- 2.1.4 Write down the price of the item that was returned.
- 2.1.5 Determine the total amount paid using FNB electronic payments.
- 2.1.6 The selling price of an item includes 15% VAT.
- 2.1.7 Calculate the price of the item purchased on 19 December 2018, excluding VAT.

2.2 Dean, a 25-year-old male, earns a taxable income of R305 174,44. He started his first job on 1 March 2019.

Tax payable by an individual for the tax year 1 March 2019 to 29 February 2020 is indicated in the table below.

Income tax rates for individuals 2019/2020 tax year  
(1 March 2019 to 29 February 2020)  
(1 Maart 2019 tot 29 Februarie 2020)

Tax Bracket/ Belastingkategorie	Taxable Income (R)	Rate of Tax (R) Belastingkoers (R)
1	0 – 195 850	18% of taxable income/van belastingbare inkomste
2	195 851 – 305 850	35 253 + 26% of taxable income above/van belastingbare inkomste bo 195 850
3	305 851 – 423 300	63 653 + 31% of taxable income above/van belastingbare inkomste bo 305 850
4	423 301 – 555 600	100 263 + 36% of taxable income above/van belastingbare inkomste bo 423 300
5	555 601 – 708 310	147 891 + 39% of taxable income above/van belastingbare inkomste bo 555 600
6	708 311 – 1 500 000	207 448 + 41% of taxable income above/van belastingbare inkomste bo 708 310
7	1 500 001 and above/van boer	532 041 + 45% of taxable income above/van belastingbare inkomste bo 1 500 000

(Adapted from [www.treasury.gov.za/Budget](http://www.treasury.gov.za/Budget))

(Adapted from [www.treasury.gov.za/Budget](http://www.treasury.gov.za/Budget))

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- 2.1.1 Skryf die totale saldo wat op Dean se rekening verskuldig is, neer. (2)
- 2.1.2 Gee die volledige datum waarop die huidige paaiement betaalbaar is. (2)
- 2.1.3 Noem die openingsaldo van die 12 maande-revoluerende rekening op. (2)
- 2.1.4 Skryf die prys neer van die item wat teruggegee is. (2)
- 2.1.5 Bepaal die totale bedrag wat betaal is deur FNB se elektroniese betalings te gebruik. (3)
- 2.1.6 Die verkoopprijs van 'n item sluit 15% BTW in. (3)
- 2.1.7 Berekende die prys van die item wat op 19 Desember 2018 gekoop is, BTW uitgesluit. (3)

2.2 Dean, 'n 25-jarige man, verdien 'n belastingbare inkomste van R305 174,44. Hy het op 1 Maart 2019 by sy eerste werkplek begin. (3)

Belasting betaalbaar deur 'n individu vir die belastingjaar 1 Maart 2019 tot 29 Februarie 2020 word in die tabel hieronder aangedui. (3)

Income tax rates for individuals 2019/2020 tax year  
(1 March 2019 to 29 February 2020)  
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7	1 500 001 and above/van boer	532 041 + 45% of taxable income above/van belastingbare inkomste bo 1 500 000

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- Note:** Dean is not a member of a medical aid.
- Use the table to answer the questions that follow.
- 2.2.1 Name the government institution responsible for collecting tax return forms.
- 2.2.2 Write down the tax bracket that will be used to calculate Dean's tax payable.
- 2.2.3 Calculate the monthly tax payable by Dean before any rebates are deducted.
- 2.2.4 The table below indicates the rebates for the 2018/2019 and 2019/2020 tax years.
- 2.2.5 Calculate the monthly tax payable by Dean before any rebates are deducted.
- 2.2.6 Die tabel hieronder dui die kortings vir die 2018/2019- en 2019/2020-belastingjare aan.
- 2.2.7 Berekende Dean se maandelikse betaalbare belasting voordat enige kortings afgetrek word. (5)
- 2.2.8 Die tabel hieronder dui die kortings vir die 2018/2019- en 2019/2020-belastingjare aan. (5)

Rebates for 2018/2019 and 2019/2020 tax years/  
Kortings vir die 2018/2019- en 2019/2020-belastingjare

Tax Bracket/ Belastingkategorie	Tax year 2018/2019/ Belastingjaar 2018/2019	Tax year 2019/2020/ Belastingjaar 2019/2020
Primary (age below 65)	R14 067	R14 220
Primary (underdom onder 65)	R7 713	R7 794
Secondary (age 65 and above)		
Secondary (ouderdom 65 en ouer)		
Tertiary (age 75 and older)		
Tersier (ouderdom 75 en ouer)	R2 574	R2 601

(Adapted from [www.treasury.gov.za/Budget](http://www.treasury.gov.za/Budget))

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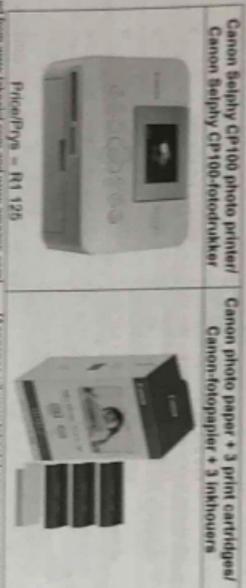
- (a) Identify the tax rebate(s) that Dean qualifies for in the 2019/2020 tax year. (2)
- (b) State the number of tax rebates a 75-year old man will qualify for in any tax year. (2)
- (a) Identifiseer die belastingkorting(s) waarvoor Dean in die 2019/2020-belastingjaar kwalifiseer. (2)
- (b) Noem die getal belastingkortings waarvoor 'n 75-jarige man in enige belastingjaar sal kwalifiseer. (2)

2.3

Dean's mother, Ella, started her own instant photography business by taking photographs on the beach. She has a camera, but needs to buy a printer, photo paper and ink cartridges for printing.

2.3

Dean se ma, Ella, het haar eie kleinste-gratebedryfheid begin deur foto's op die strand te neem. Sy het 'n kamera, maar sy moet 'n drukker, fotopapier en inktouers vir drukwerk koop. (2)



PricePlys = R1 125

Adapted from www.amazon.com and www.amazon.co.za

Adapted from www.amazon.com and www.amazon.co.za

The table below shows Ella's income and expenses for producing and selling up to 200 photographs.

Die tabel hieronder toon Ella se inkomste en uitgawes vir die lewering en verkoop van tot 200 foto's.

**Income and expenses of Ella's photography business/  
Inkomste en uitgawes van Ella se fotografiesbedryf**

Number of photographs/ Getal foto's	0	25	50	80	100	125	150	170	200
Income (rand)/ Inkomste (rand)	0	500	1 000	1 600	2 000	2 500	3 000	...	4 000
Expenses (rand)/ Uitgawes (rand)	1 125	1 250	1 375	A	1 625	1 750	1 875	1 975	2 125

(Adapted from www.computermaths.co.za)

(Adapted from www.computermaths.co.za)

Use the table above to answer the questions that follow.

Gebruik die tabel hierbo om die vrae wat volg te beantwoord.

2.3.1 Determine the selling price of ONE photograph.

2.3.1 Bepaal die verkoopprys van EEN foto.

2.3.2 Write down the formula that could be used to calculate the total income received.

2.3.2 Skryf die formule neer wat gebruik kan word om die totale inkomste ontvang te bereken.

2.3.3 The total expenses can be calculated using the following formula:

2.3.3 Die totale uitgawes kan bereken word deur die volgende formule te gebruik:

Expenses (in rand) =  $1\ 125 +$   
number of photographs  $\times 5$

Uitgawes (in rand) =  $1\ 125 +$   
aantal foto's  $\times 5$

(a) Write down the variable cost for taking ONE photograph.

(a) Skryf die veranderlike koste om EEN foto te neem, neer.

(b) Calculate missing value A

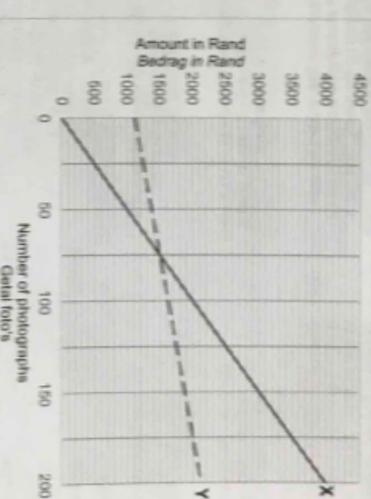
(b) Bereken ontbrekende waarde A

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2.3.4 Two graphs, X and Y, which can be used to represent the business, are shown below.

2.3.4 Twee grafieke, X en Y, wat gebruik kan word om die bedryf te beskryf, is hieronder getoon.



Use the above information to answer the following questions.

Gebruik die inligting hierbo om die vrae wat volg, te beantwoord.

- (a) Give a suitable heading for the graphs that were drawn.
- (b) State which graph (X or Y) represents the income received by the business.
- (c) Determine how many photographs must be sold to break even.

- (a) Gee 'n geskikte opskrif vir die grafieke wat geteken is.
- (b) Noem watter grafiek (X of Y) die inkomste wat deur die bedryf ontvang is, verteenwoordig.
- (c) Bepaal hoeveel foto's verkoop moet word om gelyk te breek.

**Question 3**

**Vraag 3**

3.1 Ten years ago, John bought a rectangular prism-shaped ottoman and two matching cubic-shaped ottomans. He wants to refurbish each of them by having the side surfaces (excluding the top and bottom) repainted. He will also employ an upholsterer<sup>2</sup> to re-cover the top of each ottoman and to attach cylindrical-shaped elastic-shaped ottoman will have 4 legs, while the rectangular prism-shaped ottoman will have 6 legs.

3.1 John het tien jaar gelede 'n reghoekige, prismavormige ottoman en twee kubiese, kubusvormige ottomans gekoop. Hy wil elkeen weer omtrent deur die sykante se oppervlakte (die bokant en onderkant uitgesluit) oor te verk. Hy sal ook 'n stoelbekleder<sup>2</sup> aanstel om die bokant van elke ottoman weer oor te trek en om silindriese gevormde pote aan die basis van elke ottoman vas te sit. Elke kubusvormige ottoman het 4 pote terwyl die reghoekige ottoman 6 pote het.

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