higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NASIENRIGLYN

NASIONALE SERTIFIKAAT

DATABESTUUR: BOERDERY N5

14 NOVEMBER 2019

Hierdie nasienriglyn bestaan uit 11 bladsye.

Kopiereg voorbehou

AFDELING A (TEORIE)

VRAAG 1

1.1	1.1.1	A		
	1.1.2	C		
	1.1.3	D		
	1.1.4	B		
	1.1.5	C		
	1.1.6	B		
	1.1.7	A		
	1.1.8	B		
	1.1.9	C		
	1.1.10	D		
			(10 × 2)	(20)

1.2	1.2.1	Waar		
	1.2.2	Onwaar		
	1.2.3	Waar		
	1.2.4	Onwaar		
	1.2.5	Waar		
	1.2.6	Onwaar		
	1.2.7	Waar		
	1.2.8	Waar		
	1.2.9	Waar		
	1.2.10	Onwaar		
			(10 × 2)	(20)

1.3	1.3.1	E		
	1.3.2	G		
	1.3.3	F		
	1.3.4	H		
	1.3.5	B		
	1.3.6	D		
	1.3.7	C		
			(7 × 1)	(7)

1.4 1.4.1 Sagteware wat gratis aangebied word; dit is geskep om vir almal beskikbaar te wees.

1.4.2 Onderwys waar aanlyn rekenaartegnologie as die onderrig medium gebruik word.

1.4.3 Pynlike handbesering wat deur te veel ure se insleutelaksie veroorsaak word.

1.4.4 Stel gebruikers in staat om maklik slegs die nuutste inligting, byvoorbeeld nuusopskrifte van webwerwe wat gereeld gebruik word te herwin.

1.4.5 Ligsensitiewe pen wat deur ingenieurs en argitekte gebruik word om diagramme of grafiese tekeninge op die skerm te skep.

1.4.6 'n Webwerf met gereelde inskrywings van kommentaar, beskrywings van gebeure of video's

1.4.7 'n Program of hardewaretoestel wat die inligting wat deur die internetverbinding inkom, na 'n privaat netwerk of rekenaarstelsel filter

(7 × 2) (14)

1.5 1.5.1 'Wireless Local Network'
1.5.2 'Graphical User Interface'
1.5.3 'Computer Vision Syndrome'
1.5.4 'Universal Serial Bus'
1.5.5 'Repetitive strain or stress injury' (ooreisingsbesering)

(5 × 2) (10)
[71]

VRAAG 2

2.1
- Regsklik op die herwindrom. ✓
- Kies 'open' en klik. ✓
- Kies die lêer wat j wil herwin. ✓
- Regsklik daarop en kies ‘restore’. ✓✓ (5)

2.2 2.2.1 Die spesifieke lêernaam kom nie gevind word nie.

2.2.2 Daar is nie genoeg spasie op die skyf/disket om die lêer te stoor nie.

2.2.3 Die opdrag of lêernaam is nie geldig nie.

(3 × 2) (6)

2.3
- Verminder beserings, foute, defekte en koste.
- Verminder werknemerafwesigheid
- Verbeter tevredenheid.
- Verbeter produktiwiteit.
- Verminder werkplekstres. (5 × 2) (10)

[21]

VRAAG 3

3.1
- Stamvouer/lêergids – hou rekord van al die lêers op die skyf/disket.
- Lêertoewysingstabel – waar rekord gehou word van die posisie waar lêers gestoor word.
- Laairekord – word deur Windows gebruik om die stelsel te laai. (3 × 2) (6)

3.2 'n Proses wat deur die rekenaargebruiker uitgevoer word om die verspreide lêerdele weer byeen te bring sodat dit maklik sal wees om die lêer te herwin (2)
[8]

TOTAAL AFDELING A: 100

AFDELING B: PRAKTIES

VRAAG 4: SIGBLAD

EKSAMENNO. QUESTION 4.1✓✓

GEEN RY- EN KOLOMOPSKRIFTE✓

	A	B	C	D	E	F
1	THE WILLOW TRADERS					
2						
3		2013	2014	2015	2016	2017
4	**Income**					
5	Units sold	100000				
6	Unit Price	3				
7	**Gross Revenue**					
8						
9	**Fixed Costs**					
10	Production facility	50000				
11	Adminstration	25000				
12	Total Fixed Costs					
13						
14	**Valuable cost**					
15	Unit manufacturing.cost	1,5				
16	Variable manufacturing.cost					
17						
18	**Earnings before taxes**					

WRAP TEXT✓

FIGURE 1

DRUK A4-LANDSKAP ✓

(5)

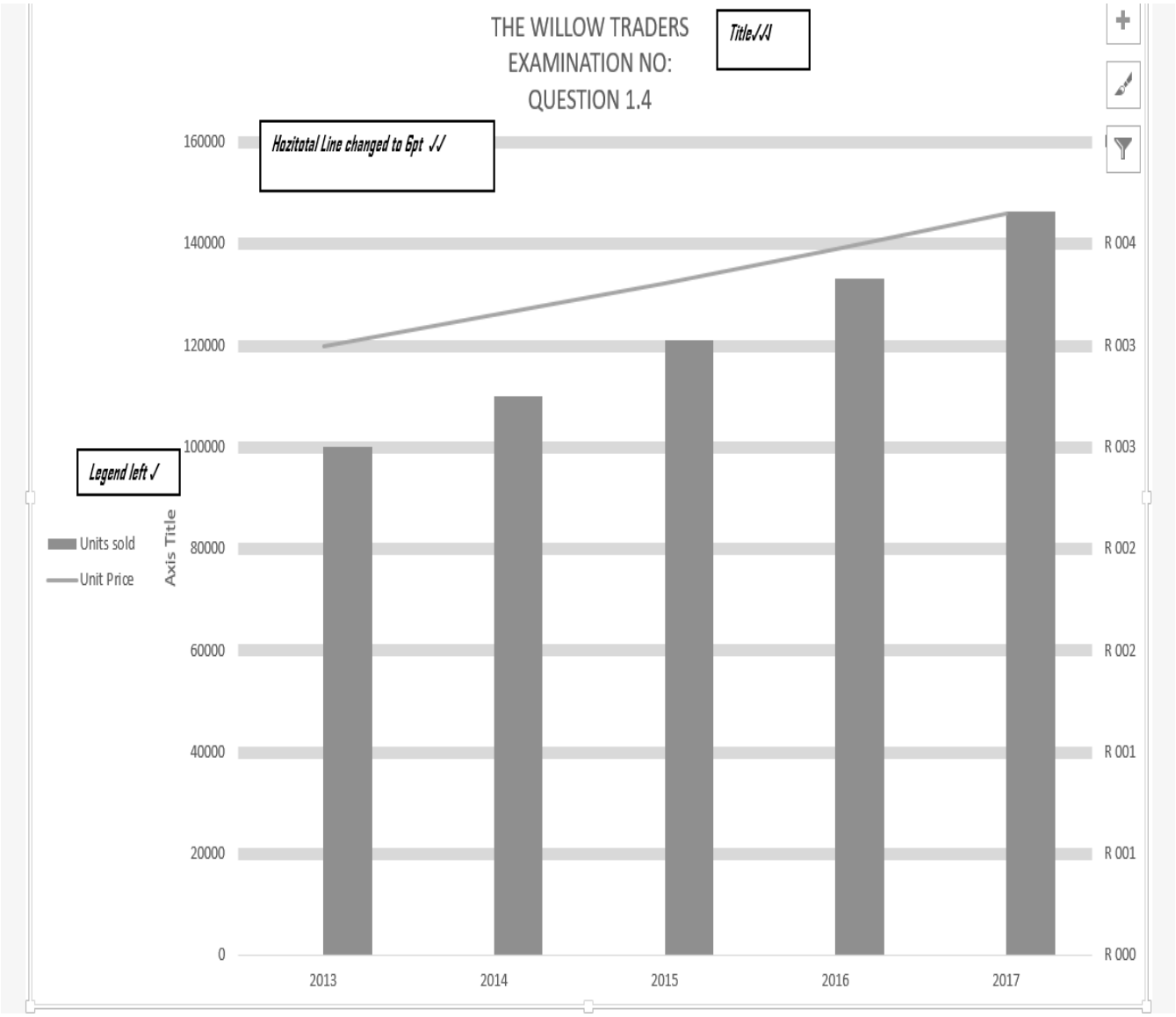
	A	B	C	D	E	F	G
1	A4,A7,A14,A18 All Bold,Italics ✓✓✓		THE WILLOW TRADERS		Merged, size, font ✓✓✓✓		
2							
3		2013	2014	2015	2016	2017	
4	**Income**						
5	Units sold	R100 000,00	R110 000,00	R121 000,00	R133 100,00	R146 410,00	
6	Unit Price	R3,00	R3,15	R3,31	R3,47	R3,65	
7	**Gross Revenue**	R300 000,00	R346 500,00	R400 207,50	R462 239,66	R533 886,81	
8							
9	**Fixed Costs**						
10	Production facility	R50 000,00	R54 000,00	R58 320,00	R62 985,60	R68 024,45	
11	Adminstration	R25 000,00	R26 250,00	R27 562,50	R28 940,63	R30 387,66	
12	Total Fixed Costs	R75 000,00	R80 250,00	R85 882,50	R91 926,23	R98 412,10	
13							
14	**Valuable cost**						
15	Unit manufacturing.cost	R1,50	R1,65	R1,82	R2,00	R2,20	
16	Variable manufacturing.cost	R150 000,00	R181 500,00	R219 615,00	R265 734,15	R321 538,32	
17							
18	**Earnings before taxes**	R75 000,00	R84 750,00	R94 710,00	R104 579,29	R113 936,38	
19			CALCULATIONS				
20	Row 18 shading✓✓		A ✓✓	F✓✓	R sign ✓✓✓		
21			B✓✓	G✓✓			
22			C✓✓	H✓✓			
23			D✓✓	I✓✓			
24			E✓✓				
25							

HORISONTALE EN VERTIKALE LYNE ✓✓

DRUK OP LANDSKAP SONDER RY- ENKOLOMOPSKRIFTE: 1 BLADSY ✓✓

VERANDER VRAAGNO NA 4.3 ✓

	A	B	C	D	E	F
1	THE WILLOW TRADERS					
2						
3		2013	2014	2015	2016	2017
4	***Income***					
5	Units sold	100000	=B5+(B5*10%)	=C5+(C5*10%)	=D5+(D5*10%)	=E5+(E5*10%)
6	Unit Price	3	=B6+(B6*5%)	=C6+(C6*5%)	=D6+(D6*5%)	=E6+(E6*5%)
7	***Gross Revenue***	=B6*B5	=C6*C5	=D6*D5	=E6*E5	=F6*F5
8						
9	***Fixed Costs***					
10	Production facility	50000	=B10+(B10*8%)	=C10+(C10*8%)	=D10+(D10*8%)	=E10+(E10*8%)
11	Adminstration	25000	=B11+(B11*5%)	=C11+(C11*5%)	=D11+(D11*5%)	=E11+(E11*5%)
12	Total Fixed Costs	=SUM(B10:B11)	=SUM(C10:C11)	=SUM(D10:D11)	=SUM(E10:E11)	=SUM(F10:F11)
13						
14	***Valuable cost***					
15	Unit manufacturing.cost	1,5	=B15+(B15*10%)	=C15+(C15*10%)	=D15+(D15*10%)	=E15+(E15*10%)
16	Variable manufacturing.cost	=B15*B5	=C15*C5	=D15*D5	=E15*E5	=F15*F5
17						
18	***Earnings before taxes***	=B7-B12-B16	=C7-C12-C16	=D7-D12-D16	=E7-E12-E16	=F7-F12-F16
19						
20	*Header changed ✓*	*Formulae correct ✓✓*	*Column width √*	*Print √*	TOTAL MARKS: (5)	
21						



(5)
[55]

Kopiereg voorbehou

VRAAG 5

EKSAMENNO EN vraagno as kopskrif = √√

CALF FEEDING

COMPUTERISED FARMING TECHNOLOGY

Computerised farming technology includes moisture sensors, smart irrigation systems, terrain contour mapping and self-driven and GPS - enabled tractors, all of which contribute to improve farming sustainability.

IoT solutions enable farmers to control water troughs and feeders and even management the irrigation system for the pastures. Machines are available that signal when stalls need to be cleaned.

Courier new font =√
Volle justifisering=√

Various types of wearables for cows allow dairy farmers to continuously monitor the health, location and behavior of all their cows at the same time. The wearables collect information about the animals' temperature, activity, behavior (feeding, sleeping, lameness, gait) and milk production levels and help farmers keep track of which cows have already been milked. Dairy farmers use the information from the trackers to determine when cows are in heat and ready for insemination and to detect any deviation from the norm. This makes the timely treatment of illness or abnormalities possible, which in turn impossible cow health and comfort.

All types of sensors are available to farmers. Drones can be fitted with multispectral sensors that indicate how crops should be watered. The same sensor mounted on a tractor that's fertilizing soil can regulate the application of nitrogen so that the right amount is applied to maintain soil health. In-field moisture sensors in the ground can help farmers create customized irrigation systems for crops and pastures based on soil moisture and temperature. This type of technology can help farmers become more sustainable by managing the level and frequency of irrigation.

Alle onderopskrifte H/L = √
Almal vetdruk =√

EQUIPMENT FOR HAPPY COWS

Cows love cow brushes, which stimulate blood circulation by their rotations and movements. According to some farmers, their cows line up for their turn to use this technology.

Rotary milking parlours make sanitization of udders efficient and accessible and misting or evaporative systems keep cows cool and prevent heat stress.

Twee kolomme met 'n lyn =√√
Kolpunte ingevoeg =√√

MILKSHUTTLE

- Physical ease of work: relieves your back
- 3 big wheels for any terrain
- Strong electric drive
- Exact and simple dosing out of the milk
- Four practical sizes

URBAN ALMA PRO

- Latest technology with a user friend touchscreen
- Future proof
- Calf health reports round the clock
- Only model with a closed loop system
- Milk temperature is controlled by 3 sensors
- Fully automatic cleaning system

Paragraafraam driedubbele lyn =√√
Skakering = √√

CONCLUSION

Agtech data and technology equip farmers to work smart and produce the best quality products efficiently while continually improving the responsible management of animals and the environment.

Druk = √

[20]

VRAAG 6

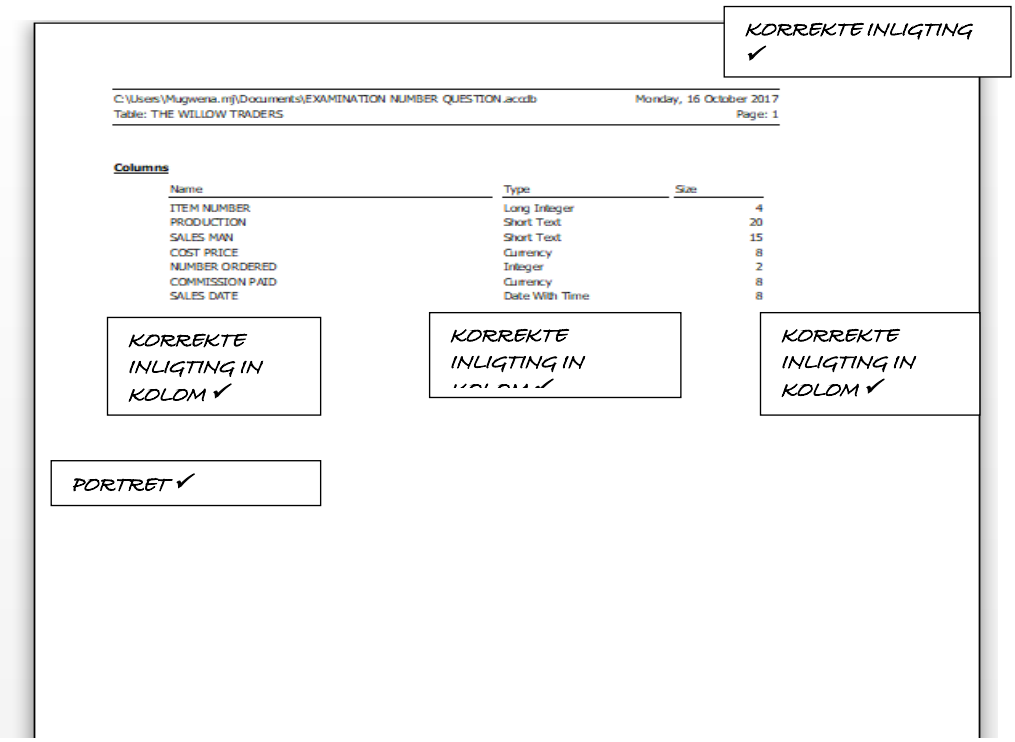
THE WILLOW TRADERS | QUESTION 3 QUERY EXAMINATION NO

ITEM NUMBER	PRODUCTION	SALES MAN	COST PRICE	NUMBER ORDERED	COMMISSION PAID	SALES DATE
1	Milk	James	R7,99	85	R33,96	2017/08/14
2	Juice	Malatji	R9,50	120	R57,00	2017/08/15
3	Yorgurt	Chris	R15,00	96	R72,00	2017/08/16
4	Cream	Robert	R17,00	60	R51,00	2017/08/17
5	Cheese	Ndlovu	R13,50	35	R23,63	2017/08/18

KORREKTE KOLOMINLIGTING= √√√√√
Kolomopskrifte aangepas=√√
Druk= √√

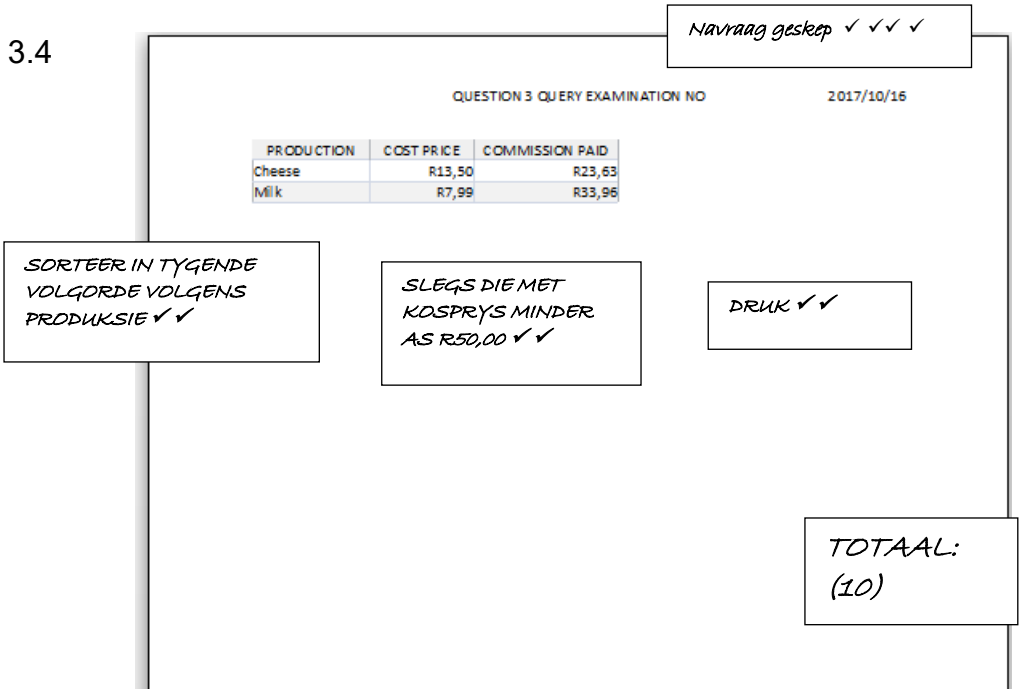
TOTAAL TABEL (10)

6.3



(5)

3.4



[25]

TOTAAL AFDELING B: 100
GROOTTOTAAL: 200

Kopiereg voorbehou