

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE/ NASIONALE SENIOR SERTIFIKAAT

GRADE 12

MATHEMATICAL LITERACY P2/ WISKUNDIGE GELETTERDHEID V2

NOVEMBER 2022

MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

| Symbol/Kode | Explanation/Verduideliking | |
|-------------|--|--|
| M | Method/ <i>Metode</i> | |
| MA | Method with accuracy/Metode met akkuraatheid | |
| CA | Consistent accuracy/Volgehoue akkuraatheid | |
| A | Accuracy/Akkuraatheid | |
| C | Conversion/Herleiding | |
| S | Simplification/Vereenvoudiging | |
| RT | Reading from a table/a graph/document/diagram/Lees vanaf tabel/grafiek/diagram | |
| SF | Correct substitution in a formula/Korrekte vervanging in formule | |
| 0 | Opinion/Explanation/Reasoning / Opinie/Verduideliking/redenasie | |
| P | Penalty, e.g. for no units, incorrect rounding off, etc./Penalisasie, bv. vir geen | |
| | eenhede/verkeerde afronding, ens. | |
| NPR | No penalty for correct rounding/Geen penalisasie vir korrekte afronding nie | |
| AO | Answer only/Slegs antwoord | |
| MCA | Method with constant accuracy/Metode met volgehoue akkuraatheid | |

These marking guidelines consist of 21 pages, an analysis grid and notes. Hierdie nasienriglyne bestaan uit 21bladsye, 'n analiserooster en notas.

| ADDDOVED | External Moderators | | Internal Moderator |
|---------------------|---|---------------|--------------------|
| APPROVED ON | R I Singh | E Cronje | L R deWaal |
| 16 November 2022 | PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS | NT OF BASIC V | Sceleward |

2022 -11- 16

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APPROVED MARKING GUIDELINE
PUBLIC EXAMINATION

NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however, it stops at the second calculation error.
- NOTE: consistent accuracy (CA) does not apply in cases of a breakdown.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.
- As a general marking principle, if a candidate has incurred one mistake and there is evidence of sound mathematics thereafter, then that candidate should lose one mark only.
- Rounding is an independent mark.
- In opinion type questions marks will only be awarded if relevant calculations are shown

LET WEL:

- As 'n kandidaat 'n vraag TWEE KEER beantwoord, sien slegs die EERSTE poging na.
- As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, sien die doodgetrekte (gekanselleerde) poging na.
- Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyne toegepas, dit hou op by die tweede berekeningsfout.
- Let wel: volgehoue akkuraatheid (CA) geld nie in die geval van 'n afbreuk nie.
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.
- 'n Algemene nasienbeginsel is dat indien 'n kandidaat een fout maak en daarna voortgaan met korrekte wiskunde, dat die kandidaat slegs een punt verloor
- Afronding tel as 'n afsonderlike punt.
- In Opinie tipe vrae sal punte slegs toegeken word indien relefante berekeninge aangetoon is.

Note: Questions marked with * refers to the notes.

Questions where the numbers are encircled are the ones where we have a tolerance range.

| | QUESTION/VRAAG 1 [27 MARKS/PUNTE] Answer Only AO - full marks | | | |
|----------------------|---|---|--|-----|
| | Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
| | | | | M |
| | 1.1.1 | Z ✓✓A | 2A correct time | L1 |
| | | | (2) | E |
| | | | | M |
| | 1.1.2* | 24 hour /uur ✓ A | 2A 1 st display 1A 2 nd display | L1 |
| | | 12 hour /uur. | 1A 2 nd display | E |
| | | | (3) | |
| - | 1.1.3* | VA | 1A correct time | M |
| | ш _ | Quarter to one in the afternoon/ pm or post | 1A afternoon | L1 |
| | GUIDELINE | meridiam | 1 | Е |
| (2) | SIF | Kwart voor een in die middag / nm | | |
| ellurm | Qu. | | | |
| clineare clineare | OVED MARKING | $\checkmark_{\rm A}$ OR/OF $\checkmark_{\rm A}$ | OR/OF | |
| - Secondary | | Fifteen minutes to one in the afternoon | | |
| 2022 | | Fifteen minutes before one in the afternoon | 1A correct time | |
| 20 | OVED | Vyftien minute voor een, namiddag | 1A afternoon | |
| 2022 -11- 1 8 | 0 0 | | (2) | |
| - 3- | PPR | | | M |
| | 1.7.4* | 2 ✓✓A | 2A correct number | L1 |
| | | | (2) | Е |





| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|---------|---|--------------------------------|---------|
| | ✓C | | M |
| 1.1.5 | $16 \times 60 + 45$ | 1C multiply hours by 60 | L1 |
| | = 1 005 minutes/minute | ľ | M |
| | = 1 005 minutes/minute A | 1A adding correct values | |
| | | (2) | |
| 1.2.1 | $32 - (8 + 6 + 8 + 8) \checkmark MA$ | 1MA subtracting from 32 | MP |
| 1.2.1 | $= 2 \text{ bolts/boute} \checkmark $ | 1A two bolts | L1 E |
| | | (2) | |
| | | (-) | MP |
| 1.2.2 | 2 nuts/moere ✓✓ A | 2A correct number nuts | L1 |
| | | (2) | M |
| 1 0 0 % | CI (DT) | | MP |
| 1.2.3* | Short brace \checkmark RT | 2RT answer | L1 |
| | Kort spanstuk | (2) | E |
| | | (2) | MP |
| 1.3.1 | Bar scale/staaf skaal 🗸 🗸 A | | L1 |
| | | | E |
| | OR/OF | | - |
| | Line scale or linear scale / lynskaal of liniere skaal | 2A Correct scale | |
| | | | |
| | OR/OF | | |
| | Graphic scale / Grafiese skaal | (2) | |
| | | (2) | MP |
| 1.3.2 | Gauteng ✓✓RT | 2RT correct province | L1 |
| | | (2) | E |
| | | | MP |
| 1.3.3 | N14 ✓RT | 1RT 1 st route | L1 |
| | N17 ✓RT | 1RT 2 nd route | E |
| | | (2) | |
| 124 | 7 | 24 1 61 | MP |
| 1.3.4 | 7 ✓✓A | 2A number of destination towns | L1 |
| | | (2) | E MP |
| 1.3.5 | 39 mm ✓✓A | 2A correct measurement | L1 |
| | [allow 1 mm on both sides] | (2) | E |
| | | [27] | |
| | 1.0 | | |

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| Q/V | TION/VRAAG 2 [36 MARKS/PUNTE] Solution/Oplossing | Explanation/Verduideliking | T/L |
|-------|--|---|-----------|
| Z,, | √√ () | Explanation/vertuitaenking | MP |
| 2.1.1 | To let in fresh or natural air (fresh air) or ventilation | | L4 |
| | Vars lug in te laat of ventilasie | | M |
| | | | 111 |
| | OR/OF | | |
| | √ ✓ O | | |
| | To let natural light in./Sunlight/sun rays to come in | | |
| | Om lig in te laat/sonlig/sonstrale te laat inkom. | | |
| | OR /OF | * | |
| | OR/OF | | |
| | For customers to enjoy the view outside. Vir kliënte om die uitsig te kan geniet. | 20 ===== | \ |
| | Vir kitenie om die uitsig te kan geniet. | 20 reason | λ |
| | OR/OF ✓✓ O | DEPARETARENT CITATION OF A SOLVER BAG X886, PRETORIA OF | 1 |
| | The windows are many because they are small sized. | TRECATION | 1 |
| | Die vensters is klein daarom is daar so baie. | PAREDO XING. 16 | 3101 |
| | | DEPAREDUCE ARRANG GUI | DELINA |
| | OR/OF | Sylve Sylve SAMO | ATIO |
| | People outside to view the inside, hence attract $\checkmark \checkmark$ O | LEO MARTA | |
| | customers | APPROVILICE: | |
| | Mense kan van buite, binne toe kyk, dit trek gevolglik | APUB | |
| | kliente | | |
| | | (2) | MP |
| 2.1.2 | Max. no of seats /Maks. Getal stoele | 1MA adding correct | L2 |
| _,,, | = 6 + 2 + 5 + 5 + 5 + 4 + 4 + 4 + 4 + 4 + 4 + 4 | numbers | E |
| | $= 6 + 2 + 15 + 28 + 6$ \checkmark S | | |
| | $= 57 \checkmark CA$ | 1S simplification | |
| | - 57 • CA | 1CA answer | |
| | OR/OF | OR/OF | |
| | Max. no. of seats/ <i>Maks. Getal stoele</i> | | |
| | | 1MA multiply correct | |
| | $= 1 \times 6 + 2 \times 1 + 3 \times 5 + 4 \times 7 + 6 \times 1$ | numbers | |
| | | IIIIII OCIO | |
| | $= 6 + 2 + 15 + 28 + 6 \checkmark S$ | 1S simplification | |
| | √CA | - | |
| | = 57 ✓CA | 1CA answer | |
| | | AO | |
| | | (3) | |
| 1 2* | 13 seats/stoele. ✓✓ A | 24 | MP |
| .1.3* | 15 Seats/stoete. | 2A number of seats | L2 |
| | | (2) | Е |

The ser Stelentaal

| Q/V_{-} | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-----------|---|--|---------------|
| 2.1.4* | For people waiting to be seated. /Vir mense wat wag vir 'n sitplek OR/OF A place you can wait for a dining table to be ready or prepared for one. / 'n Plek waar jy kan wag dat 'n tafel gereed gemaak word vir jou. OR/OF To sit on while waiting for your lift after visiting the restaurant. /Om op te sit terwyl jy wag vir jou geleentheid nadat jy die restaurant besoek het. OR/OF Waiting area for customers who ordered take-aways. Wag plek vir mense wat wegneemetes bestel het. OR/OF A place where customers can take pictures. / 'n Plek waar kliente fotos kan neem. | 20 reason DEFARETAR AREA TO THE PROPERTY OF T | MP L4 E |
| 2.1.5 | ✓ A Walk in an Easterly direction. Then turn and walk in a Southerly direction. Then turn and walk in an Easterly direction. ✓ A Loop in 'n Oostelike rigting. Draai en loop in 'n Suidelike rigting, draai weer en loop in 'n Oostelike. | 1A East 1A South 1A East | MP L3 M |
| 2.1.6* | Number 13 is left out, there are only 20 tables. Nommer 13 is uitgelaat, daar is slegs 20 tafels. Therefore, her claim is valid. Dagrom is haar hewering geldig. | 2A Reasoning and reflecting | MP L4 M |
| | OR/OF Number of tables set for / tafels vir 1 = 6 Number of tables set for / tafels vir 2 = 1 Number of tables set for / tafels vir 3 = 5 Number of tables set for / tafels vir 4 = 7 Number of tables set for / tafels vir 6 = 1 Total = 20 \checkmark A | OR/OF 2A Reasoning and reflecting | |
| | Therefore, her claim is valid. Daarom is haar bewering geldig. ✓ O | 10 verification (3) | |

To ge & Afdeniaal

| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|--------------|---|--|---------------|
| 2.2.1 | Tree diagram/Boom diagram ✓✓ A | 2A tree diagram (2) | |
| 2.2.2 (a) | CSM / HSM ✓ ✓ A | 2A outcome | P L2 E |
| 2.2.2 (b) | F (Fish) / V / Vis ✓✓ A | 2A choice (4) | |
| 2.2.3* | 4 ✓✓ A | 2A correct number (2) | |
| 2.2.4* | $P(\text{malva}) = \frac{6}{12} \times 100 \%$ | 1A numerator 1A denominator | P L2 M |
| | = 50 % ✓ CA OR/OF ✓ A | 1CA simplified as a % OR/OF | |
| | $P(\text{malva}) = \frac{1}{2} \times 100 \%$ | 1A numerator | |
| | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1A denominator | |
| | = 50 % ✓ CA | 1CA simplified as a % AO (3) | |
| 2.3.1 | It is a map showing the course that runners have to follow in a race. $\checkmark \checkmark A$ Dit is 'n kaart wat die pad wat hardlopers sal volg aandui. OR/OF A map that shows the path / way / direction the runners will run. $\checkmark \checkmark A$ 'n Kaart wat die pad / weg / rigting wat die hardlopers sal volg, aantoon. OR/OF A map that displays the roads that make up the | 2A explanation | MP L1 E |
| | course of the LAM. $\checkmark \checkmark$ A 'n Kaart wat die pad wat die LAM volg, aandui. | PRIVATE SAO TRUSTIL 16 PRIVATE SAO TRUSTIL 16 APPROVED MARKING GUIDELINE APPROVED MARKING GUIDELINE (2) | |

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Steleward

| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|---------------|---|--|---------------|
| 2.3.2 | There is no relationship (or ratio) between distances on a map and the corresponding distance on the ground. Daar is nie 'n verhouding tussen die afstande op die kaart en die ooreenstemmende afstande in die werklikheid nie. | | MP L4 M |
| | OR/OF ✓✓ A One should not measure the length on the map and then expect to be able calculate the "real life" distance from it. Jy kan nie die afstande op die kaart meet en verwag dat jy die werklike afstande kan bereken nie. | | |
| | OR/OF The drawing of the map did not use a scale like e.g. 1 unit is to 100 units when it was drawn. Die tekening van die kaart het nie 'n skaal gebruik nie, soos bv. 1 eenheid is tot 100 eenhede toe dit geteken is. OR/OF VA Not to scale means the dimensions or measurements on the map are not accurate. Nie op skaal beteken die afmetings op die kaart is nie akkuraat nie. | 2A explanation DEPARE DUCATION PRIVATE PAGE 2012 APPROVED MARKING GUIL APPROVED MARKING GUIL APPROVED MARKING GUIL (2) | |
| 2.3.3 (a) | The road is overshadowing or hide/covering or obscuring the route course. **O Die roete is obskuur of versteek of nie sigbaar waar die ander deel bo-oor dit gaan nie.** **OR/OF** **O OR/OF** **O OR/OF** **O OR/OF** **O OR/OF** **O OR/OF** **Arrows disappear under the road / Pyle verdwyn onder die pad.** | 20 reasoning | MP L4 M |
| 2.3.3* (b) | Four (4) times/Vier keer. ✓ A | 2A correct number (2) | MP L1 E |
| 2.3.4 | South west or SW/Suidwes ✓✓ A | 2A correct direction (2) | MP L2 M |
| | | [36] | |



| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-------|---|--|--------------|
| 3.1.1 | Perimeter/ $Omtrek$ \checkmark SF = 2 × (239 + 89) mm = 656 mm \checkmark A | 1SF substitution 1A simplification 1A unit | M L2 E |
| | OR/OF Perimeter/Omtrek = 239 mm +89 mm + 239 mm + 89 mm ✓ MA ✓ A = 656 mm ✓ A | OR/OF 1MA adding all sides 1A simplification 1A unit AO (3) | |
| 3.1.2 | Height opening/closing part/Hoogte van die oop-/ toemaak gedeelte MA = 114 mm - 2,5 cm - 7 cm C | 1MA subtracting both values | M L2 E |
| | $= 11,4 \text{ cm} - 2,5 \text{ cm} - 7 \text{ cm}$ $= 1,9 \text{ cm} \checkmark \text{CA}$ \mathbf{OR}/\mathbf{OF} | 1C converting 1CA simplification OR/OF | OK PREST |
| | Height opening/closing part/Hoogte van die oop-/ toemaak gedeelte = 114 mm - (2,5 cm + 7 cm) MA C = 11,4 cm - 9,5 cm = 1,9 cm CA | 1MA subtracting both values 1C converting 1CA simplification | ONE ONE |
| | OR/OF Height opening/closing part/Hoogte van die oop-/ toemaak gedeelte ✓MA = 114 mm - 25 mm - 70 mm | OR/OF 1MA subtracting both values | |
| | $= \frac{190mm}{10} \checkmark C$ $= 1.9 \text{ cm} \checkmark CA$ | 1C converting 1CA simplification | - |





| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|--------------|--|---|---|
| 3.1.3 (a) | Radius = $\frac{28mm}{2} = 14mm$ \checkmark A | 1A radius | M L3 M |
| | $= 1.4 \text{ cm} \checkmark \text{C}$ $\checkmark \text{SF}$ $\text{Volume} = 3.142 \times (1.4 \text{ cm})^2 \times 8.5 \text{ cm} \checkmark \text{SF}$ | 1C converting 1SF radius squared 1SF substitution | |
| | $= 52,34572 \text{ cm}^3$ $= 52,346 \text{ cm}^3$ | | 2510 |
| | Radius = $\frac{2,8 \text{ cm} \checkmark \text{C}}{2}$ = 1,4 cm $\checkmark \text{SF}$ Volume = 3,142 × (1,4 cm) ² × 8,5 cm $\checkmark \text{SF}$ = 52,34572 cm ³ = 52,346 cm ³ | 1C converting 1A radius 1SF substitution 1SF radius squared | STEEL |
| 3.1.3 (b) | $0.82 = \text{Mass} / \text{Massa} \div 52.346 \checkmark \text{SF}$ | 1SF substitution | M L3 |
| | Mass/Massa = 0.82×52.346 \checkmark M $= 42.92372 \text{ g} \checkmark \text{A}$ $= 43 \text{ g} \checkmark \text{R}$ | 1M changing the subject of the formula 1A simplification 1R rounded (4) | M |
| 3.2.1 | Volume = 1,6 gallon/gelling × 4 × 28 × 5 \checkmark MA = 896 gallon/gelling Volume = 896 × 3,785 ℓ \checkmark C = 3 391,36 ℓ \checkmark CA | 1MA multiplication 1C conversion factor 1CA simplification | M L3 M |
| | OR/OF | OR/OF | |
| | 1,6 gallon/gelling = 1,6 × 3,785 ℓ = 6,056 ℓ Volume water = 6,056 ℓ × 4 × 28 × 5 \checkmark MA = 3 391,36 ℓ \checkmark CA | 1C conversion 1MA multiplication 1CA simplification (3) | |

The ser Staleward

| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|--------|--|---|--|
| | OR/OF | OR/OF | |
| | 1 Person flushes/ spoel | | |
| | $4 \times 28 = 112$ times a month/keer per maand | | |
| | That is/dit is 112×1.6 gal = 179.2 gallons/gelling | | |
| | Volume = 179,2 × 3,785 = 678,272 ℓ ✓ C | 1C conversion | |
| | Family of 5 volume/ familie van 5 | | |
| | Volume = $678,272 \ \ell \times 5 = 3391,36 \ \ell $ \checkmark CA | 1MA multiplication 1CA simplification | P. C. |
| | OR/OF | OR/OF | 16 CUIDELANE |
| | The family flushes /die familie spoel | OFF | |
| | $4 \times 5 \times 1,6 \text{ gal} = 32 \text{ gal / day}$ | TO SE | |
| | Volume = $32\text{gal/day} \times 3,785 = 121,12 \text{ gal/day} \checkmark \text{C}$ | 1C conversion | 2022 |
| | For the month /vir 'n maand \checkmark MA Volume = 121,12 gal/day × 28 days = 3 391,36 ℓ \checkmark CA | 1MA multiplication 1CA simplification | Approx |
| | OR/OF | OR/OF | The second secon |
| | Toilet flushed in Feb/ Spoel in Feb = $5 \times 4 \times 28$ | | |
| | = 560 | 1C conversion | |
| | $\sqrt{\text{C}} \text{ Volume} = 1.6 \times 3.785 \times 560$ | 1MA multiplication | |
| | = 3 391,36 ℓ ✓CA | 1CA simplification | |
| | | (3) | |
| 3.2.2* | Restrict the volume of water flowing into the cistern Verminder die volume water wat in die spoelbak invloei | | M L4 E |
| | OR/OF Repair all the leaks/Maak alle lekplekke reg ✓✓ O | 2O any valid way to reduce volume of water in the cistern | |
| | OR/OF VVO Place a brick into the cistern/Sit 'n baksteen in die spoelbak | | |
| | OR/OF Install a newer model / Installeer 'n nuwer model | (2) | |

The ser Steleward

| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-------|--|---|--------------|
| 3.3.1 | $17:30 - 15 \min_{\text{min}} - 40 \min_{\text{min}} - 40 \min_{\text{min}}$ $= 15:55$ | 1MA subtracting 15 min from 17:30 1MA subtracting two cooking times 1CA simplification AO | M L2 M |
| 3.3.2 | °C = (°F − 32°) × $\frac{5}{9}$ = (325 − 32) × $\frac{5}{9}$ | 1SF correct substitution 1CA simplification 1R rounding AO (3) | M L2 E |
| 3.3.3 | $4\frac{1}{4} \times 2 = 8\frac{1}{2} \text{ cups/koppies}^{\checkmark} A$ $250 \text{ ml} = 0.25 \ \ell \checkmark C$ | 1M multiplying with 2 1A total cups 1C convert to litre | M L3 M |
| | Number of litres/Hoeveelheid liter $= 8\frac{1}{2} \times 0.25 \ \ell = 2.125 \ \ell \qquad \checkmark \text{CA}$ OR/OF | 1CA simplification OR/OF | |
| | 1 cup/koppie = 250 mℓ 4 cups /koppies = 4 × 250 mℓ = 1 000 mℓ ¹ / ₄ cup/koppie = ½ × 250 mℓ = 62,5 mℓ ¹ / ₄ cup/koppie = ½ × 250 mℓ = 62,5 mℓ | 1MA multiplying with 250 | |
| | For 1 tart she needs /vir 1 tert benodig sy = $1\ 000 + 62.5 = 1\ 062.5\ \text{m}\ell$ \checkmark A | 1A milk needed for 1 tart | |
| | For 2 tarts/vir 2 terte = 1 062,5 m ℓ × 2 = 2 125 m ℓ \checkmark C = 2,125 ℓ \checkmark CA | 1C convert to litre 1CA simplification | |
| | OR/OF | OR/OF | |
| | 1 tart /tert : $4\frac{1}{4} \times 250 \text{ m}\ell = 1\ 065,5 \text{ m}\ell \checkmark \text{A}$ | 1MA multiplying with 250 1A milk needed for 1 tart | |
| | 2 tarts /terte: 1 065,5 m $\ell \times 2 = 2$ 125 m $\ell \times C$ Total /totaal: 2 125 m $\ell \div 1$ 000 = 2,125 $\ell \times C$ A | 1C convert to litre 1CA simplification | |





| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-----|--|--|-----|
| | OR/OF | OR/OF | |
| | $4\frac{1}{4} = \frac{17}{4} \text{ cups /koppies}$ | | |
| | For 1 tart/ vir 1 tert | 1MA multiplying with 250 | |
| | $\frac{17}{4} \times 250 \text{ m}\ell = 1\ 062,5 \text{ m}\ell = 1,0625 \ \ell$ | 1C convert to litre | |
| | $\frac{-1}{4} \times 250 \text{ m}\ell = 1.0625 \text{ m}\ell = 1,0625 \ell$ | 1A milk needed for 1 tart | |
| | Milk for 2 tarts / Melk vir 2 terte | | |
| | $= 1,0625 \ \ell \times 2 = 2,125 \ \ell \checkmark CA$ | 1CA simplification | |
| | OR/OF | OR/OF | |
| | ✓MA ✓A | 1MA multiplying with 2 | |
| | $4\frac{1}{4} \times 2 \times 250 \text{ m}\ell = 2 \ 125 \text{ m}\ell \qquad \checkmark \text{CA}$ | 1A total cups | |
| | = 2,125 ℓ ✓C | 1CA simplification 1C convert to litre | |
| | | To convert to muc | |
| | OR/OF | OR/OF | |
| | ✓MA ✓A | 1MA multiplying with 2 | |
| | $4,25 \times 2 = 8,5 \text{ cups/koppies}$ | 1A total cups | |
| | $1 \operatorname{cup}/koppie = 250 \mathrm{m}\ell$ | | |
| | 8,5 cups / koppies = x | | |
| | $x = \frac{8.5 \ cups}{1 \ cup} \times 250 \ \text{ml} = 2 \ 125 \ \text{ml}^{2} \text{CA}$ | 1CA simplification | |
| | = 2,125 ℓ ✓C | 1C convert to litre | |
| | OR/OF | OR/OF | |
| | ✓MA | 13.64 12.12 | |
| | $2(4 \times 250) = 2\ 000\ \text{m}\ell$ | 1MA multiplying with 2 | |
| | $2(\frac{1}{4} \times 250) = 125 \text{ m}\ell \qquad \checkmark A$ | 1A total cups | |
| | Total = $2 \cdot 125 \text{ m}\ell$ \checkmark CA | 1CA simplification | |
| | = 2,125 ℓ ✓C | 1C convert to litre | |
| | | (4) | |
| | | [29] | |







| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-------|--|----------------------------|-----------------|
| 4.1.1 | The total length/ <i>Totale lengte</i> | | MP |
| 7.1.1 | The total length/Totale lengte ✓ MA | | L2 M |
| | = 19 cm + 23 cm + 10 cm + 25 cm + 23 cm + 41 cm | 1MA adding correct values | 141 |
| | = 141 cm ✓CA | 1CA simplification | |
| | = 1 410 mm ✓C | 10 | |
| | ≈ 1 500 mm | 1C conversion | |
| | | (3) |) (D) |
| 4.1.2 | The 2 sides are against the back which is 14 cm wide. | | MP L4 |
| | The thickness of the boards is 20 mm | | D |
| | Die 2 sykante is teen die agterkant wat 14 cm breed is. | | |
| | Die dikte van die plank is 20 mm | | |
| | Floor against the Back/Vloer teen die agterkant | | |
| | $= 14 \text{ cm} - 20 \text{ mm} - 20 \text{ mm}$ $\checkmark MA$ | 1MA subtracting | |
| | $= 14 \text{ cm} - 2 \text{ cm} - 2 \text{ cm} \checkmark \text{C}$ | 1C conversion | |
| | = 10 cm ✓A | 1A simplification | |
| | His statement is correct/Sy bewering is korrek | 10 verification | |
| | OR/OF | OR/OF | RKING GUIDELINE |
| | If the 10 cm side goes against the back: | 098 | _ |
| | Indien die 10cm teen die rugkant is: | 11.44 | |
| | 14 cm - 10 cm = 4 cm is left on the sides/bly oar vir | 1MA subtracting | 2 |
| | die kante | 1MA subtracting | All allowed a |
| | $4 \text{ cm} \div 2 = 2 \text{ cm}$ on each side /elke kant. | 1A simplification | \$ |
| | Board thickness/plank dikte = $20 \text{ mm} = 2 \text{ cm}$ $\checkmark \text{C}$ | 1C conversion | |
| | His statement is correct./ Sy bewering is korrek ✓O | 1O verification | |
| | OR/OF | OR/OF | |
| | Thickness of the board / dikte van die plank | | |
| | $= 20 \text{ mm} = 2 \text{ cm} \checkmark \text{C}$ | 1C conversion 1MA adding | |
| | $10 \text{ cm} + 2 \text{ cm} + 2 \text{ cm} = 14 \text{ cm} \checkmark \text{A}$ | 1A simplification | |
| | His statement is correct./ Sy bewering is korrek | 10 verification | |

The ser Statemant

| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-------|--|-----------------------------------|--------------|
| | OR/OF The thickness of each side / dikte aan elke kant | OR/OF | |
| | = 2 cm ✓ C Floor against the back side / <i>Vloer teen rugkant</i> | 1C conversion | |
| Đ, | = $(14 \text{ cm} - 10 \text{ cm}) \div 2$ $\checkmark MA$ = $4 \text{ cm} \div 2$ = 2 cm $\checkmark A$ | 1MA subtracting 1A simplification | |
| | His statement is correct. / Sy bewering is korrek | 10 verification (4) | |
| 4.1.3 | Area of rectangle/Oppervlakte van reghoek | | M L3 D |
| | = 23 cm × 14 cm ✓ SF | 1SF correct values | |
| | $= 322 \text{ cm}^2 \checkmark \text{A}$ | 1A simplification | |
| | Radius of the hole /Radius van opening | | |
| | $= 4.2 \text{ cm} \div 2 = 2.1 \text{ cm} $ \checkmark A | 1A radius value | |
| | Size of the hole / Grootte van opening | | |
| | $= 3.142 \times (2.1)^2 \checkmark SF$ | 1SF substitution | |
| | $= 13,85622 \text{ cm}^2 \checkmark \text{CA}$ | 1CA simplification | |
| | Exposed front area / Voorste buite opp. | | |
| | $= 322 \text{ cm}^2 - 13,85622 \text{ cm}^2$ | | |
| | $= 308,14378 \text{ cm}^2 $ $\checkmark \text{CA}$ | 1CA simplification NPR (6) | |

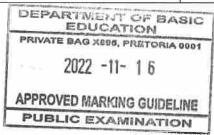
DEPARTMENT OF BASIC EDUCATION PRIVATE BAG X895, PRETORIA 0001 2022 -11- 16 APPROVED MARKING GUIDELINE PUBLIC EXAMINATION



| $\overline{\mathbf{Q}/V}$ | Solution/Oplossing | Explanation/Verduideliking | T/L |
|---------------------------|--|--|----------------------|
| 1.2 | Coot/Lagg 1, 10 m² vgo 1 f | | M |
| ⊦. ∠ | Coat/Laag 1: $10 \text{ m}^2 \text{ use } 1 \ell$ | | L4 D |
| | $0.2888 \text{ m}^2 \text{ needs } n \ell$ | | ם |
| | $n = \frac{0.2888}{10} \ell \qquad \checkmark MA$ | 1MA ratio | |
| | = 0, 02888 ℓ ✓A | 1A simplification | |
| | Coat/Laag 2: 14 m ² use 1 ℓ 0,2888 m ² needs $n \ell$ $n = \frac{0,2888}{14} \ell = 0,0206285 \ell$ | 1A simplification | |
| | Total for 3 coats/ <i>Totaal vir 3 lae</i> | | |
| | $= 0.02888 + 2 \times 0,0206285 \ell \checkmark MCA$ | 1MCA adding 3 values | |
| | = 0,070137 ℓ ✓CA | 1CA simplification | |
| | Number of birdhouses with 500 m \(\ext{Getal voëlhuisies met 500 m} \(\ext{\ell} \) | | |
| | $=\frac{0,500}{0,070137}$ \checkmark MCA | 1MCA dividing converted values | |
| | ≈ 7 ✓ CA | 1CA simplification | |
| | His statement is correct/Sy bewering is korrek ✓O | 10 conclusion | |
| | OR/OF | OR/OF | |
| | Coat/Laag 1: 10 m² use 1 ℓ | 0 1- | observation of the |
| | $0,2888 \text{ m}^2 \text{ needs } n \ell$ | 1MA ratio | 4 |
| | $n = \frac{0.2888}{10} \ell \qquad \checkmark MA$ | 1 *p # 10 | |
| | $=0,02888 \ell \checkmark A$ | 1A simplification 1A simplification | APPROVED MARKING OIL |
| | Coat/ $Laag$ 2: 14 m ² use 1 ℓ | | - 12 |
| | $0,2888 \text{ m}^2 \text{ needs } n \ell$ | No. | 77r |
| | $n = \frac{0.2888}{14} \ell = 0,0206285\ell^{A}$ | 1A simplification | 13AC |
| | | RIVA | 200 |
| | Total for 3 coats / <i>Totaal vir 3 lae</i> $= 0.02888 + 2 \times 0, 0206285 \ell$ | [1] a. | অ |
| | $= 0.070137 \ell $ | 1MCA adding 3 values 1CA simplification | |
| | For 7 birdhouses/Vir 7 voëlhuisies = 0,070137 × 7 ✓ MCA | 1MCA multiplying by 7 | |
| | = 0,490959 = 490 mℓ ✓ CA His statement is correct/Sy bewering is korrek. ✓ O | 1CA number of millilitres 1O conclusion | |

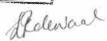
The ser Steleward

| Q/V | Solution/Oplossing | Explanation/Verduideliking | 7 | T/L |
|------------|--|--|-----|----------------|
| | OR/OF | OR/OF | | |
| | Total area for 7 birdhouses /Totale oppervlakte vir 7 voelhuisies = $7 \times 0.2888 \text{ m}^2 = 2,0216 \text{ m}^2$ | 1MA multiplying by 7 | | |
| | 1 st coat/laag: 1 \(\ell\) covers/bedek 10 m ² | | | |
| | $n \ \ell \text{ covers /bedek 2, 0216 m}^2$ $n = \frac{2,0216}{10} = 0,20216 \ \ell \qquad \checkmark A$ | 1MA ratio 1A simplification | | |
| | 2 nd coat/laag: 1 ℓ covers/bedek 14 m ² | | | |
| | $x \ell \text{ covers/bedek 2, 0216 m}^2$ | | | |
| | $x = 0.1444 \ell \qquad \checkmark A$ | 1A simplification | | |
| | and $3^{rd} \cot/laag = 0.1444 \ell$ | | | |
| | Total paint needed /totale hoeveelheid verf nodig | 4 | | _ |
| | $= 0.20216 \ \ell + 0.1444 \ \ell + 0.1444 \ \ell $ \checkmark MCA | 1MCA adding 3 values | | |
| | = 0,49096 ℓ ✓CA | 1CA simplification | | |
| | = 490,96 mℓ ✓CA | 1CA number of millilitres | | |
| | Correct /korrek ✓O | 10 conclusion | (8) | |
| 4.3.1 | Rental + Transport/Huur en vervoer | 100 | | M/F |
| (a) | $= R250 + R100 \checkmark MA$ | 1RT correct values 1MA adding correct values | | L1 E |
| | = R350 | | (2) | |
| 4.3.1* (b) | Wooden boards each/Houtplanke elk | | | M/F L2 M |
| | $= \frac{R287,40}{6} = R47,90 \checkmark MA$ | 1MA unit price | | 111 |
| | Total cost for one/Totale koste vir een | | | |
| | $p = R47,90 + R21,40 + R10,70$ \checkmark MCA | 1MCA adding ALL correct values | | |
| | = R80 | 1CA simplification | (3) | |









| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|--------|--|---|----------------|
| 4.3.2* | Break-even point is when the expenses for making, transporting the birdhouses and renting the stall is equal to the income from selling the birdhouses. Gelykbreekpunt is waar die uitgawes vir die maak, vervoer en huur van die stalletjie is gelyk aan die inkomste van die verkoop van die voëlhuisies. | | M/F L1 E |
| | OR/OF | | |
| | Break-even point is where the number of birdhouses sold equals the expense (cost) to make the birdhouses. Gelykbreekpunt is waar die getal voelhuisies wat verkoop word gelyk is aan die uitgawes (kostes) om hulle te maak | 2A correct explanation 2A correct explanation PRIVATE BAG 2806. PRETORIAGE 2022 11- 16 | 101 |
| | OR/OF | PRIVATE BAG XENS, PRETO, | |
| | In this context he must make and sell 5 birdhouses and his expense and income will both be R750 In hierdie konteks moet hy 5 voelhuisies maa ken verkoop en sy uitgawes en inkomstes is beide R750 | APPROVED MARKING GUIL | HON |
| 4.3.3 | Expense for/ <i>Uitgawe vir</i> 15 is R1 550 \checkmark RT Income/ <i>Inkomste</i> 12 is R1 800 \checkmark RT | 1RT expense 1RT income | M/F L3 M |
| | ✓A Profit /Wins | 1A profit | |
| | = R1 800 - R1 550 | | |
| | = R250 | 1CA simplification | |
| | OR/OF | OR/OF | |
| | Income from selling /Inkomste uit verkoop van 12 = $R150 \times 12 = R1800$ \checkmark A | 1A income | |
| | Expense for making 15 / <i>Uitgawes om 15 te maak</i> = $R350 + R80 \times 15 = R1550$ \checkmark A | 1A expense | |
| | He makes a profit / Hy maak 'n wins $R1 800 - R1 550 = R250 \qquad \checkmark CA$ | 1A profit 1CA simplification | |
| | | (4) | |
| | | [32] | |





| Q/V | Solution/Oplossin | 26 MARKS/PUNTE | Explanation/Verduideliking | T/L | | | |
|-------------|---|--|---|---------|--|--|--|
| X 11 | Solution optossi | 78 | Dapatitudi / Crawacowing | MP | | | |
| 5.1 | Location/Plek | Detail/Besonderheid | | L2 | | | |
| | 01 | a | | M | | | |
| | 02 | f ✓A | 1A 1 st correct one | | | | |
| | 03 | b ✓A | 1A 2 nd correct one | | | | |
| | 04 | d ✓A | | | | | |
| | 05 | c 🗸 | 1A 3 rd correct | | | | |
| | 06 | e | 1A last correct | | | | |
| | 03. Visit Mount F 04. Visit the Wood | den Temple / Hout tempel 🗸 A | OR/OF 1A 1 st correct one 1A 2 nd correct one 1A 3 rd correct | | | | |
| | 05. Visit the riqua | V A | 1A last correct | | | | |
| | | OR/OF | OR/OF | | | | |
| | (a) - 01 $(b) - 03 \checkmark A$ | DEPARTNENT OF BASIC | 1A 1st correct one | | | | |
| | $(c) - 05 \checkmark A$ | DEPARTNENTION EDUCATION PRIVATE BAG X895, PRETORIA 0001 | 1A 2 nd correct one | | | | |
| | (d) - 04 ✓A | PRIVATE BAG X885, PALL 2022 -11- 1 6 | | | | | |
| | (e) -06 (f) $-02 \checkmark A$ | APPROVED MARKING GUIDELINE APPROVED MARKING GUIDELINE PUBLIC EXAMINATION | 1A 3 rd correct 1A last correct (4) | | | | |
| 5.2.1* | 2022 - 1707 = 315 | Seed-Time | 1A number of years | M L2 | | | |
| | Number of decade $= \frac{315}{100}$ | es/Getal dekades | 1A decade | M | | | |
| | $\begin{vmatrix} 10 & \checkmark A \\ = 31,5 & \checkmark CA \end{vmatrix}$ | | 1CA simplification (3) | | | | |
| 5.2.2 | Nov: $30 - 11 = 19$ | √A 9 days/ <i>dae</i> | 1A days in Nov | M L1 | | | |
| | Dec: 15 days ✓A | | 1A number of days in Dec | E | | | |
| | Elapsed days betw | een/Verloopte dae tussen | | | | | |
| | = 19 + 15 = 34 | √CA | 1CA total number of days | | | | |
| | | OR/OF | OR/OF | | | | |
| | From/van 12 Nov | $to/tot 11 Dec = 30 days/dae \checkmark A$ | 1A number of days in Nov | | | | |
| | | to $/tot$ 15 Dec = 4 days $dae \checkmark A$ | 1A days in Dec | | | | |
| | | n /Totale dae tussen = $30 + 4 = 34$ | · · | | | | |
| | | | (3) | | | | |







| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|---|--|--|---------|
| 5.3.1* | 150 : 250 ✓A | 1A correct values and order | M L1 |
| | = 3 : 5 | 1CA simplification (2) | Е |
| 5.3.2 | 1 m = 3,281 feet/voet | | M |
| 3.3.2 | 1 III – 3,281 leet/voet | | L2 E |
| | Height = $\frac{1.092,1916 \text{ feet}}{3,281 \text{ feet per metre}}$ \checkmark MA | 1MA dividing | |
| | ≈ 332,884 m ✓ CA | 1CA simplification NPR | |
| | | (2) | M |
| 5.3.3 | % discount/afslag = $\frac{\text{discount amount}}{\text{original price}} \times 100\%$ \checkmark MA | 1MA percentage calculation | L4 M |
| | $= \frac{1200 - 960}{1200} \times 100\%$ | 1RT correct values | |
| | , A | 1A denominator | |
| | $=\frac{240}{1200}$ \times 100% | 1A numerator | |
| | = 20 % ✓CA ✓O | 1CA simplification | |
| | His statement is incorrect/Sy bewering is verkeerd. | 10 verification | |
| | OR/OF VPT | OR/OF | |
| | $ \begin{array}{c} \mathbf{OR/OF} \\ \mathbf{Percentage} / Persentasie = \frac{960}{1200} \times 100\% \\ \mathbf{A} \end{array} $ | 1MA percentage calculation 1RT correct values 1A denominator | |
| 140 | = 80% ✓A | 1A simplification | |
| 5 | Percentage discount /Persentasie afslag | | |
| | =100% - 80% | | |
| | = 20% ✓CA | 1CA simplification | |
| APPROVED MARKING GUIDELINE PUBLIC EXAMINATION | Incorrect / verkeerd ✓O | 10 verification | |
| NOVE BLI | OR/OF | OR/OF | |
| APPRO | ✓MA ✓RT | 1MA percentage calculation of correct values | |
| | Discount /afslag = $30\% \times 1200 = 360 \text{ yen}$ \checkmark A | 1RT correct values | |
| | Discounted amount should be /Afslag moes wees: ✓MA | 1A simplification | |
| | $1\ 200 - 360 = 840\ \text{yen}$ $\checkmark \text{CA}$ | 1MA subtracting | |
| | Incorrect / verkeerd ✓O | 1CA simplification 1O verification | |



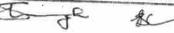
| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-----|---|---|--------------|
| | OR/OF Difference in ticket price / Verskil in kaartjie pryse \checkmark RT \checkmark MA \checkmark A = 1 200 - 960 = 240 yen \checkmark MA Discount /afslag = 30% × 1 200 = 360 yen \checkmark A Incorrect / verkeerd \checkmark O | OR/OF 1RT correct values 1MA subtracting 1A simplification 1MA percentage calculation 1A simplification 1O verification | |
| | $ √MA 	 OR/OF $ $ 100\% - 30\% = 70\% 	 ✓ A $ Discounted Amount /Bedrag na afslag $ √MA 	 √RT $ $ = \frac{70}{100} \times 1200 $ $ = 840 	 yen 	 ✓ A $ His statement is incorrect, the price for adults is $ 960 	 yen 	 ✓ O $ Sy bewering is nie korrek want die bedrag vir volwassenes is 960 jen | OR/OF 1MA subtracting 1A simplification 1RT correct values 1MA percentage calculation 1A simplification 1O verification | |
| 5.4 | Duration of the trip/Duur van rit = 12:03 − 8:06 = 3 h 57 min ✓ A | 1A duration | M L3 D |
| | Total stopping time/Totale tyd van stoppe = $8 \times 4 \text{ min} = 32 \text{ min} \checkmark A$ Time that the train was moving/ Tyd wat trein beweeg = $3 \text{ h } 57 \text{ min} - 32 \text{ min}$ | 1A total stopping time | |
| | = 3 h 25 min ✓CA Distance = speed × time Afstand = spoed × tyd 816 km = speed × 3 h 25 min ✓SF | 1CA travelling time 1SF substitution | |
| | Speed/Spoed = $\frac{816 \text{ km}}{3 \text{ h } 25 \text{ min}} = \frac{816 \text{ km}}{3,416667h}$ | 1S change of subject of the formula | |
| | = 238,83 km/h ✓CA | 1CA simplification | |

PRIVATE BAG XS95, PRETORIA 0001

2022 -11- 16

APPROVED MARKING GUIDELINE
PUBLIC EXAMINATION

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NSC/NSS - Marking Guidelines/Nasienriglyne

| Q/V | Solution/Oplossing | Explanation/Verduideliking | T/L |
|-----|--|-------------------------------------|-----|
| | OR/OF | OR/OF | |
| | Duration of the trip/Duur van rit = 12:03 – 8:06 | | |
| | $= 3 \text{ h } 57 \text{ min} = 237 \text{ min} \qquad \checkmark \text{A}$ | 1A duration | |
| | Total stopping time/Totale tyd van stoppe = $8 \times 4 \text{ min} = 32 \text{ min} \checkmark A$ | 1A total stopping time | |
| | Time that the train was moving/ Tyd wat trein beweeg = 237 min − 32 min = 205 min ✓ CA | 1CA travelling time | |
| | Distance = speed × time $Afstand = speed \times tyd$ $816 \text{ km} = \text{speed} \times 205 \text{ min}$ $\checkmark \text{SF}$ | 1SF substitution | |
| | Speed/Spoed = $\frac{816 \text{ km}}{205 \text{ min}}$ \checkmark S | 1S change of subject of the formula | |
| | ≈ 3,980487 km/min ✓CA | 1CA simplification NPR | |
| | | (6) | |
| | | [26] | |
| | | TOTAL: 150 | |

| | Maps | Meas | Prob | L1 | L2 | L3 | L 4 | Total | | Е | М | Đ |
|-------|------|------|------|-----|----|----|-----|-------|----|---|---|---|
| 1.1.1 | | 2 | | 2 | | | | 2 | | 2 | | |
| 1.1.2 | | 3 | | 3 | | | | 3 | | 3 | | |
| 1.1.3 | | 2 | | 2 | | | | 2 | | 2 | | |
| 1.1.4 | | 2 | | 2 | | | | 2 | | 2 | | |
| 1.1.5 | | 2 | | 2 | | | | 2 | | | 2 | |
| 1.2.1 | 2 | | | 2 | | | | 2 | | 2 | | |
| 1.2.2 | 2 | | | 2 | | | | 2 | | | 2 | |
| 1.2.3 | 2 | | | 2 | | | | 2 | | 2 | | |
| 1.3.1 | 2 | | | 2 | | | | 2 | | 2 | | |
| 1.3.2 | 2 | | | 2 - | | | | 2 | | 2 | | |
| 1.3.3 | 2 | | | 2 | | | | 2 | | 2 | | |
| 1.3.4 | 2 | | | 2 | | | | 2 | | 2 | | |
| 1.3.5 | 2 | | | 2 | | | | 2 | 27 | 2 | | |
| 2.1.1 | 2 | | | | | | 2 | 2 | | | 2 | |
| 2.1.2 | 3 | | | | 3 | | | 3 | | 3 | | |
| 2.1.3 | 2 | | | | 2 | | | 2 | 36 | 2 | | |



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Difficulty level

NSC/NSS - Marking Guidelines/Nasienriglyne

| Target | 40% | 58.0 55% | 7.3 5% | 29.3 30 % | 27.3 30 % | 22.7 20 % | 20.7 20% | 100.0 100% | | 42.7 40% | 41.3 | 16.0 20% |
|--------------|------------|--------------------|------------------|---------------------|--|---------------------|--------------------|---------------|-----|-------------|----------|-------------|
| | 52 34.7 | 87 | 11 | 44 | 41 | 34 | 31 | 150 | 150 | 64 | 62 | 24 |
| 5.4 | F2 | 6 | 1.1 | 4.1 | 4.4 | 6 | 2.1 | 6 | 26 | | | 6 |
| 5.3.3 | | 6 | | | | | 6 | 6 | | | 6 | |
| 5.3.2 | | 2 | | | 2 | | | 2 | | 2 | | |
| 5.3.1 | + | 2 | | 2 | _ | | | 2 | | 2 | | |
| 5.2.2 | | 3 | | 3 | | | | 3 | | 3 | | |
| 5.2.1 | | 3 | | | 3 | | | 3 | | _ | 3 | |
| | 4 | | | | 4 | | | 4 | | | 4 | |
| 4.3.3 5.1 | - | 4 | | | - | 4 | | 4 | - | | 4 | |
| 4.3.2 | | 2 | | 2 | | | | 2 | | 2 | | |
| 4.3.1b | | 3 | | | 3 | | | 3 | 32 | | 3 | |
| 4.3.1a | | 2 | | 2 | | | | 2 | | 2 | | |
| 4.2.2 | - | 8 | | | | | 8 | 8 | | | | 8 |
| 4.1.3 | | 6 | | | | 6 | | 6 | | | | ε |
| 4.1.2 | 4 | | | | | | 4 | 4 | - | | | 4 |
| 4.1.1 | 3 | | | | 3 | | | 3 | 1 | | 3 | |
| 3.3.3 | | 4 | | | | 4 | | 4 | 29 | | 4 | |
| 3.3.2 | - | 3 | | | 3 | | | 3 | | 3 | | |
| 3.3.1 | | 3 | | - | 3 | | | 3 | | | 3 | |
| 3.2.2 | | 2 | | | | | 2 | 2 | | 2 | | |
| 3.2.1 | | 3 | | | | 3 | | 3 | | | 3 | |
| 3.1.3b | | 4 | | | | 4 | | 4 | | | 4 | |
| 3.1.3a | | 4 | | | | 4 | | 4 | | | 4 | |
| 3.1.2 | | 3 | | | 3 | | | 3 | | 3 | | |
| 3.1.1 | | 3 | | | 3 | | | 3 | | 3 | | |
| 2.3.4 | 2 | | | Ų. | 2 | | | 2 | | | 2 | |
| 2.3.3(b) | 2 | | | 2 | | | | 2 | | 2 | | |
| 2.3.3(a) | 2 | | | | | | 2 | 2 | | | 2 | |
| 2.3.2 | 2 | | | | | | 2 | 2 | | | 2 | |
| 2.3.1 | 2 | | | 2 | | | | 2 | 1 | 2 | | |
| 2.2.4 | | | 3 | | 3 | | | 3 | 1 | | 3 | |
| 2.2.3 | | | 2 | 2 | | | | 2 | | 2 | | |
| 2.2.2 | | | 4 | - | 4 | | | 4 | 1 | 4 | | |
| 2.2.1 | | | 2 | 2 | | | 3 | 2 | 1 | 2 | 3 | |
| 2.1.6 | 3 | | | | | 3 | 3 | 3 | 1 | - | 3 | |
| 2.1.4 | 2 | | | | | 1 2 | 2 | 2 | 1 | 2 | — | |









| | NOTES | | | |
|------------|---|---------|--|--|
| 1.1.2 | Digital and Analogue Digitaal en Analoog | 2 marks | | |
| 1.1.3 | Twelve forty-five in the afternoon Forty-five minutes past 12 in the afternoon | 2 marks | | |
| 1.1.4 | If B & E is written Correct times - 12:45 & 16:45 | 1 mark | | |
| 1.2.3 | Screw/s | 2 marks | | |
| 1.3.2 | Free State | 2 marks | | |
| 1.3.4 | Listing only all 7 names | 1 mark | | |
| 2.1.3 | Accept 6 | 1 mark | | |
| 2.1.4 | Accept Decorating purposes For people to take pictures Health reasons Outside for people who smoke | 2 marks | | |
| 2.1.6 | Accept Invalid –only when they wrote following explanation: There are 21 tables because table 18 is made up of two × 3 - seater tables (Table 13 and Table 18) | 3 marks | | |
| 2.2.3 | Options listed BVI BVM BSI BSM 2022 -11 6 APPROVED MARKING GUIDELINE APPROVED MARKING GUIDELINE | 1 mark | | |
| 2.2.4 | 2 × 100% = 50 % APPROVED MARKING GUIDLE EXAMINATION | 3 marks | | |
| 2.3.2 | Free hand sketch | 2 marks | | |
| 2.3.3 a | The bridges are indicated with the number 10 and 110 on each side of the streets. | 2 marks | | |
| 2.3.3 b | Accept 5 | 2 marks | | |
| 3.2.1 | If ONE value is missing $1,6 \times 4 \times 28$ $1,6 \times 4 \times 5$ $1,6 \times 28 \times 5$ $= 179,2$ gallons $= 32$ gallons $= 224$ gallons $179,2 \times 3,785$ $32 \times 3,785$ $224 \times 3,785$ $= 678,272 \ \ell$ $= 121,12 \ \ell$ $= 847,84 \ \ell$ | 2 marks | | |





| 3.2.2 | Practical examples to restrict flow into the cistern are e - Bend the arm that carries the float down - push the handle up before all the water runs out short flush Flush less | 2 marks | | | |
|--------|---|------------|--|--|--|
| | | | | | |
| 3.3.3 | Failure to multiply by 2 | | 3 marks | | |
| 4.3.1 | Accept: Expenses = $R350 + p \times number$ $R430 = R350 + p \times 1$ p = R430 - R350 = R80 | | 3 marks | | |
| 4.3.2 | At break-even no profit or loss is made. | | 2 marks | | |
| 5.2.1. | Accept 31 and 32 | | 3 marks | | |
| 5.3.1 | Accept ratio simplified to 1:1,67 or $0,6:1$ or $\frac{3}{5}$ | | 2 marks | | |
| 5.3.3 | Alternatives if they multiply with 60 $1 200 \times 60 = 72\ 000\ \text{yen}$ $960 \times 60 = 57\ 600\ \text{yen}$ $\% \text{ discount } / \text{ afslag} = \frac{72\ 000 - 57\ 600}{72\ 000} \times 100\% \text{ MA}$ $= 20\% \text{ CA}$ His statement is some of St. In equipment in the statement in the statement is some of St. In equipment in the statement is some of St. In equipment is statement in the statement in the statement is some of St. In equipment is statement in the statement in the statement is statement in the statement in the statement is statement in the statement in the statement in the statement in the statement is statement in the statement in the statement in the statement is statement in the statement is statement in the | √ 0 | 6 marks | | |
| | His statement is wrong / Sy bewering is nie korrek nie OR/OF $1\ 200 \times 60 = 72\ 000\ \text{yen} \checkmark \text{RT}$ $960 \times 60 = 57\ 600\ \text{yen}$ $\checkmark \text{MA}$ $72\ 000\ \text{yen} - 21\ 600\ \text{yen}$ $\checkmark \text{MA}$ $72\ 000\ \text{yen} - 21\ 600\ \text{yen}$ | PRIVAT | RTMENT OF BASIC EDUCATION BAG X895, PRETORIA 0001 2022 -11- 1 6 VED MARKING GUIDELINE LIC EXAMINATION | | |
| | = 50 400 yen ✓A ✓O His statement is wrong / Sy bewering is nie korrek nie | | | | |

To ge ger Stelenaal