SOUTH AFRICAN COMPREHENSIVE ASSESSMENT INSTITUTE
SUID-AFRIKAANSE KOMPREHENSIEWE ASSESSERINGSINSTITUUT

Adult Basic Education and Training (ABET)

Marking Guideline

Mathematical Literacy: NQF level 1

Examination Session: November 2023

Total Marks: 100 Marks

Symbol	Explanation
A	Accuracy: answer must be exactly as given.
AO	Answer only: if correct, full marks.
CA	Consistent Accuracy. Continue marking, using the candidate's answer.
J	Justification
M	Method
MA	Method with accuracy
O	Opinion
P	Penalty, e.g., for no units, incorrect rounding off, etc.
R	Rounding off
RT/ RG/ RM/ RS	Reading from a table/ graph/ map/ scale
S	Simplification
SF	Substitution in the formula

ANSWERS			Mark Allocation	Explanation
QUESTION 1				
1.1	(a)	8 x 9✓ = 72✓	2	A
1.2		3 x 3 x 3 x 3 ✓	1	A
1.3	(a)	12 ✓	1	A
1.3	(b)	12 ✓	1	A
1.3	(c)	5 ✓	1	A
1.3	(d)	– 2 ✓	1	A
1.4		$\frac{16}{25}$ ✓or 0,64✓	1	A
1.5	(a)	30 000 000 ✓	1	A
1.5	(b)	Thirty million ✓	1	A
QUESTION 2				
2.1		B✓ D✓ (in any order) (Maximum 1 mark if three answers are given. No marks if four answers are given).	2	A
2.2	(a)	3,63✓	1	A
2.2	(b)	$\frac{2}{3}$ ✓	1	A
2.3	(a)	36,7 ✓	1	R
2.3	(b)	44 000 000✓ **Or:** 44 million ✓	1	R

QUESTION 3

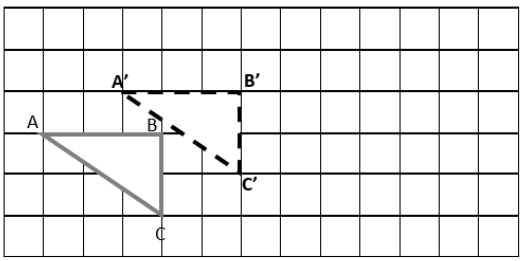
3.1		3 400(1 + 0,05 x 6) ✓ = R4 420 ✓ (1 mark penalty if units omitted, only in this question) **Or:** Interest = 0,05 x 3 400 x 6 ✓ = 1 020 Investment = R4 420 ✓ **Or:** Interest = $\frac{5}{100} \times 3\,400 \times 6$ ✓ = 1 020 Investment = R4 420 ✓	2	MA CA P
3.2	(a)	R2 700 ✓	1	A
3.2	(b)	R300 ✓ + R117 x 30 ✓ = R3 810 ✓	3	A MA
3.2	(c)	R810 ✓	1	CA
3.2	(d)	R3 000 ÷ 1,15 ✓ = R2 608,70 ✓ **Or:** Price(1 + 0,15) = 3 000 1,15 x Price = 3 000 ✓ Price = 3 000 ÷ 1,15 = R2 608,70 ✓	2	MA

QUESTION 4

4.1	(a)	Triangular prism ✓	1	A
4.1	(b)	6 ✓	1	A
4.1	(c)	3 ✓	1	A
4.1	(d)	$5^2 - 4^2 = x^2$ ✓(Pythagoras) $\therefore x = 3$ ✓ $\therefore b = 6$	2	SF CA
4.1	(e)	Area of triangle = $\frac{1}{2}(6 \times 4)$ ✓ Volume of prism = $\frac{1}{2}(6 \times 4) \times 7$ ✓	3	SF CA

		= 84 cm^3 ✓ **Or:** Area of triangle = $3 \times 4 = 12$✓ Volume of prism = 12×7✓ = 84 cm^3 ✓		
4.2	(a)	15 cm ✓	1	A
4.2	(b)	V = 3,14(15)^2(33) ✓ = 23 314,5 cm^3 ✓	2	SF CA
4.2	(c)	23,3 litres ✓	1	CA
4.3	(a)	Potatoes: tomatoes = 4:2 ✓ 5 x 2 = 10 cups potato ✓ **Or:** For every 2 cups potato, use 1 cup tomato ✓ 5 x 2 = 10 cups potato ✓ **Or:** Tomatoes: potatoes = 2:4 ✓ 5 x 2 = 10 cups potato ✓ **Or:** For every 1 cup tomato, use 2 cups potato ✓ 5 x 2 = 10 cups potato ✓	2	CA
4.3	(b)	3:7 ✓	1	A

QUESTION 5

5.1		*2 spaces right* ✓ *1 space up* ✓ *Label* A'B'C' ✓	3	A
5.2		3 circles (or ovals) then rectangle ✓ Middle circle larger ✓	2	MA
5.3		Surface area of complete prism = 2(3 x 3) + 4(5 x 3) = 78 square units ✓	3	A

		Area of top = 15 square units ✓ Surface area of open prism = 78 – 15 = 63 square units ✓ **Or:** Surface area of open prism = 15 x 3 ✓ + 9 x 2 ✓ = 63 square units ✓		
5.4		47,46 ✓	1	RS
5.5		$-2℃$ ✓ **Or:** – 2 ✓ **Or:** 2 degrees below zero ✓	1	RS
QUESTION 6				
6.1	(a)	Parallelogram ✓	1	A
6.1	(b)	A ✓	1	A
6.1	(c)	A ✓	1	A
6.1	(d)	$\hat{T}_1 = \hat{Q}_2$ (alternate angles✓) = 25° ✓ **Or:** $\hat{T}_1 = \hat{Q}_2$ ($\Delta PQT \equiv \Delta RTQ$✓) = 25° ✓	2	J A
6.1	(e)	$\hat{T}_1 + \hat{T}_2 = 25° + 56° = 81°$ ✓ $\hat{R}_1 = P\hat{T}R$ (corresponding angles ✓) $\hat{R}_1 = 81°$ ✓ **Or:** $\hat{P} + \hat{Q}_2 + \hat{T}_2 = 180°$ (sum angles of triangle✓) $\hat{P} = 180° - (25° + 56°)$ $= 99°$ ✓ $\hat{P} = \hat{R}_2 = 99°$ (opposite angles of parallelogram) $\hat{R}_1 = 81°$ ✓ (adjacent angles on straight line)	3	CA
6.2	(a)	Length x width x height ✓ $= (3a) \times (3a) \times (3a)$ $= 27a^3$ ✓ **Or:** Side^3 ✓ $= (3a)^3$	2	A SF

		$= 27a^3$ ✓ **Or:** $(3a)^3$ ✓ $= 27a^3$ ✓		
6.2	(b)	6 x length x length ✓ $= 6(3a)^2$ $= 54a^2$ ✓ **Or:** 6 x Side^2 ✓ $= 54a^2$ ✓	2	SF A
6.2	(c)	A ✓	1	O
QUESTION 7				
7.1	(a)	B1 ✓ **Or:** 1B ✓	1	RM
7.1	(b)	North west ✓ **Or:** NW ✓	1	RM
7.1	(c)	Go west on Long St✓, left onto Centre Rd ✓, right onto Mountain Rd ✓ **Or:** Go west on Long St✓, south onto Centre Rd ✓, west into Mountain Rd ✓	3	RM
7.1	(d)	1 050 m or 1,05 km ✓ (Accept answers between 1 000 m and 1 200 m Or 1 km and 1,1 km)	1	RM
7.2		105 km ✓	1	A
7.3	(a)	6 hours ✓	1	A
7.3	(b)	A ✓	1	A
7.3	(c)	20 km ✓	1	A
7.3	(d)	6 km ✓	1	A

QUESTION 8

8.1 (a)

Task	Tally	Frequency
Fencing	||||	4
Planting	𝍸 |	6
Watering	𝍸 ||	7
Pruning	𝍸	5
Weeding	𝍸 |||	8

✓ Two tallies correct ✓ other two tallies correct
✓ Frequencies match tallies

3 CA

8.1 (b) B ✓ 1 O

8.1 (c) $\frac{30}{100}$ x branch = 54✓
Branch = $\frac{54}{30} \times 100$
Branch = 180 cm ✓
Or:
0,3 x branch = 54✓
Branch = $54 \div 0{,}3$
Branch = 180 cm ✓

2 MA

8.2 (a)

Tens	Length (cm)
2	5 7 9
3	2 2 7 9
4	0 5 6 6 8 9 9 9
5	0 1 1 4 7 9
6	0 0 2

✓ Numbers correct ✓ Order correct (increasing)

2 RT

8.2 (b) 49 cm ✓ 1 A

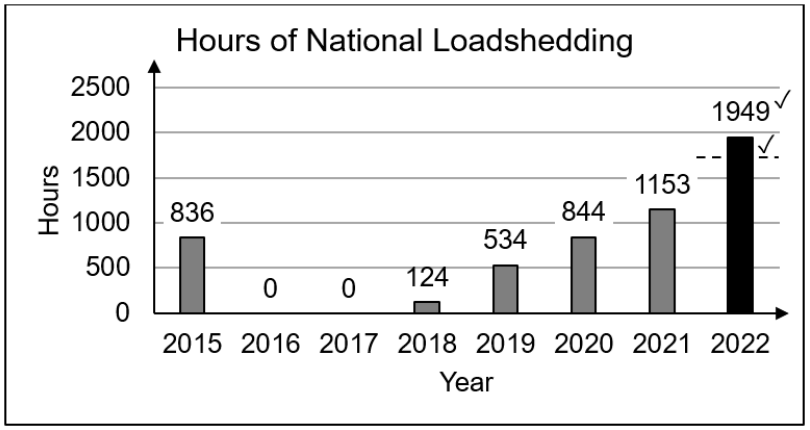
8.2 (c) 37 ✓ cm [Continued accuracy from stem and leaf diagram in question 8.2(a).] 1 CA

8.2 (d) 48,5 ✓ cm [Continued accuracy from stem and leaf diagram in question 8.2(a).] 1 CA

8.2 (e) $\frac{1\,097}{24}$ ✓ = 45,7 cm✓ 2 MA

QUESTION 9

9.1 (a) R2 841 857 ✓ 1 MA

9.1	(b)	$\frac{2\,825\,192}{31\,453\,118}$ ✓ = 8,98% ✓ **Or:** $\frac{2\,825\,192}{31\,453\,118} \times 100\%$ ✓ = 8,98% ✓	2	MA CA
9.1	(c)	A ✓	1	J
9.2	(a)	Annually ✓ **Or:** Once a year✓	1	J
9.2	(b)	By mail, fax and telephone. ✓	1	J
QUESTION 10				
10.1	a	 [Bar must reach more than halfway between 1 500 and 2 000, i.e. it must reach above the dotted line]	2	A MA
10.1	(b)	2015 and 2020 ✓	1	A
10.1	(c)	B ✓	1	A
10.2	(a)	40 – 59 years ✓	1	A
10.2	(b)	C ✓	1	A
10.2	(c)	$\frac{2}{3}$ ✓ [Continued accuracy from 10.2(b)] **Or:** 67% or 66,7% ✓ **Or:** 0,667 or 0,67 ✓	1	CA
		Grand Total:	**(100)**	