



SOUTH AFRICAN COMPREHENSIVE ASSESSMENT INSTITUTE
SUID-AFRIKAANSE KOMPREENSIEWE ASSESSERINGSINSTITUUT

Adult Basic Education and Training (ABET)
Site-Based Assessment
Portfolio of Evidence

Mathematical Literacy: NQF Level 1
Total: 50 marks
Duration: 5 hours
Task 2: Worksheet

Learner Information

Name : _____
Surname : _____
Identity/
Passport Number : _____
Employee Number : _____
Company : _____
Centre : _____
Date : _____

Declaration

I declare that this portfolio of evidence is my own work: _____

Signature



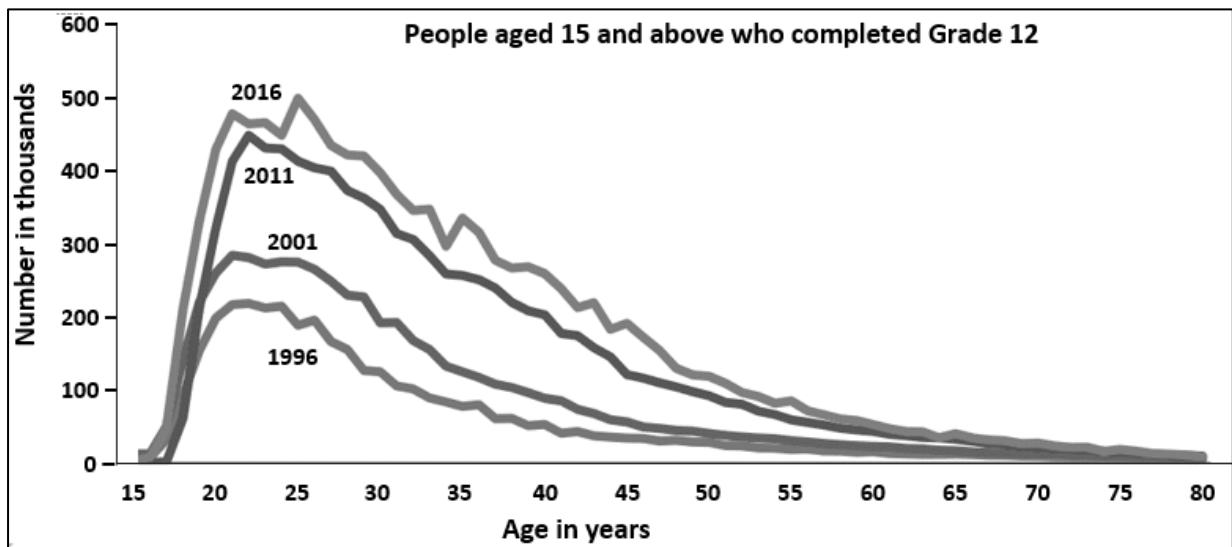
INSTRUCTIONS

1. This task consists of **THREE ACTIVITIES**.
2. Complete **ALL** questions in each **ACTIVITY**.
3. Learners should work on **ALL** activities individually.
4. You may use a calculator but show **ALL** your working.
5. Round off your answers to **TWO** decimal places (where necessary).
6. Write your answer in the simplest form.
7. Adhere to the numbering system used in this question paper.



ACTIVITY 1: FURTHER EDUCATION FOR ADULTS

Refer to the graphs below covering a twenty-year period, showing numbers of people who completed Grade 12 according to age.

Graph 1.1

Sources: Census 1996, 2001, 2011 and Community Survey 2016

1.1 Answer the following questions relating to the graphs.

- (a) Estimate the number of 25-year-old people who completed Grade 12 in 2016. Give the answer to the nearest hundred thousand.

(2)

- (b) In which year were there about 280 000 people aged 25 that completed Grade 12?

(1)

- (c) How many *more* people aged 30 completed Grade 12 in 2011 than in 2001? Show working. Give the answer to the nearest hundred thousand.

(2)

- (d) Give one possible reason for the sudden drop in numbers for the 2016 graph between the ages of 20 and 24.

(2)

1.2 For the following questions, circle the letter to show the correct statement.

- (a) The graphs show that:

- A Most people complete Grade 12 between the ages 35 and 40.
B Most people complete Grade 12 between the ages of 20 and 25.

(2)

- (b) The graphs show that:

- A More young people as well as more older people completed Grade 12 as time went on.
B As time went on, the number of older people completing Grade 12 decreased.

(2)

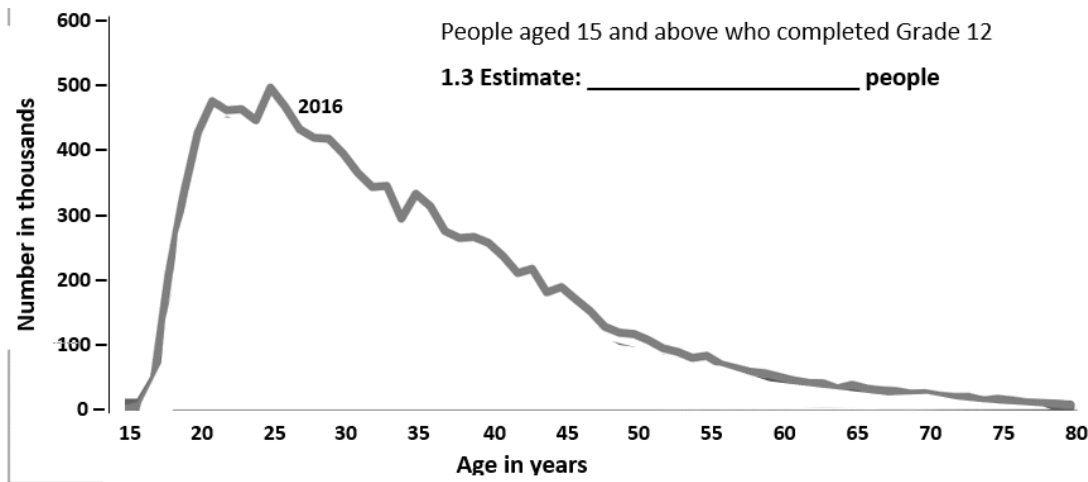
1.3 Follow these steps to provide an estimate of the number of people who completed Grade 12 when they were your age.

Use the graph provided below. Draw a vertical line on the graph to indicate your age now. Note where the line meets the 2016 graph.

Write down the number of people at this point, in the place indicated.



Graph 1.2



(2)

1.4 Give your opinion: Which of the graphs shown with dotted lines gives a more likely estimate of the number of people who will complete Grade 12 for the various age groups in the year 2024? Circle the letter of your choice.

Graph 1.3



A Graph A gives the better estimate for 2024

B Graph B gives the better estimate for 2024



Now give a reason for your choice.

(2)

- 1.5 A total of 787 717 candidates entered for the November 2019 NSC (matric) examination. This number was made up of 616 754 full time and 170 963 part-time candidates. The group achieved a pass rate of 81.3%.

Determine the number of candidates that passed the NSC examination in November 2019.

(2)

TOTAL MARKS FOR ACTIVITY 1

(17)

ACTIVITY 2: A SENIOR MATRICULANT

- 2.1 Read the extract about Sipho 'Hotstix' Mabuse then answer the questions that follow.

South African music legend Sipho 'Hotstix' Mabuse dropped out of school to pursue his career. Years later, at the age of 60, he joined an adult education class in the afternoons at Thaba-Jabula Secondary School in Soweto. He felt this would be an encouragement to others, as well as fulfilling his own dream. He matriculated that year (2012) and furthered his education at the University of Johannesburg. The university conferred on him the 2018 Ellen Kuzwayo Council Award, which honours leading human rights activists for their outstanding contribution in the higher education sector.

Source (adapted): <https://www.iol.co.za/sundayindependent/music-legend-mabuse-goes-back-to-school-at-60-1238313>



- (a) What year was Mabuse born? Show working.

(2)

- (b) How old was Mabuse when he received the Ellen Kuzwayo Council Award?

(2)

2.2 The Thaba-Jabula Secondary School, where Mabuse attended afternoon classes, was built in 1899. The school currently has 46 teachers and 1 435 learners.

- (a) If every teacher teaches an equal number of learners, how many learners are there in one class? Show working.

(2)

- (b) If the number of teachers stays the same but the number of learners increases, how will the class size change?

- A. Class size will increase.
B. Class size will decrease.

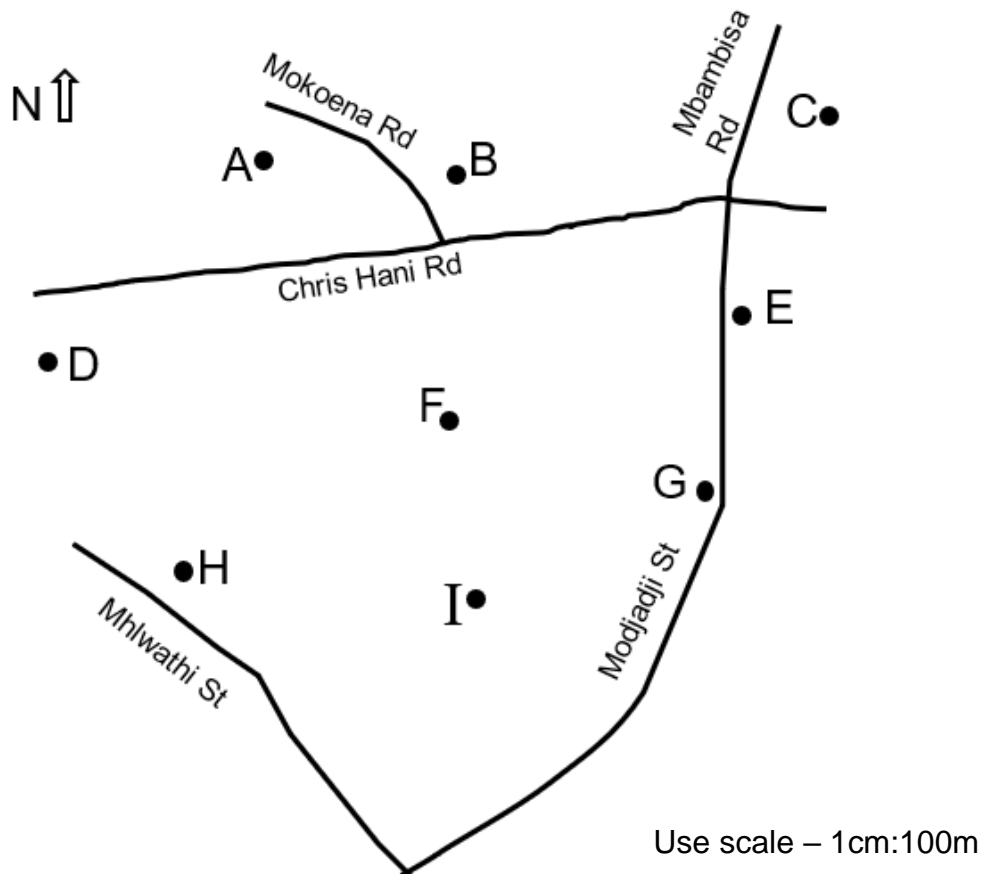
(1)

- (c) In which year will the school celebrate its 150th anniversary? Show working.



(2)

2.3 The map shows the area around Thaba-Jabula Secondary School in Soweto.



Key: The following institutions are shown on the map:

A	Batsogile Primary School	B	Football Training Centre	C	Thaba-Jabula Secondary School
D	Ubuntu Health Care Clinic	E	Department of Education	F	Winnie Ngwekazi Primary School
G	Funda Ujabule Primary School	H	Sydney Z Student Residence	I	Emshekantamo Secondary School

- (a) What fraction of the institutions shown on the map are directly involved in education, training, or housing of students? Give the answer as a proper fraction.

(2)

- (b) What percentage of the institutions shown on the map are primary schools? Round off to the nearest percent. Show working.

(3)

- (c) Siphó's son attends the Batsogile Primary School. In what direction is the Football Training Centre from the school?

(1)

- (d) Which institution is furthest to the north east of the map?

(1)

- (e) Which institution is south of Winnie Ngwekazi Primary School?

(1)



- (f) Name the institution that is approximately 500m north of Emshekantamo Secondary School.

(1)

- (g) If you travel north along Modjadji St and cross straight over Chris Hani Rd, what road will you be in?

(2)

- (h) Estimate the direct distance from Thaba-Jabula Secondary School to the Department of Education. Use measurement and the scale at the bottom right of the map. Show your calculations. Round off your answer to the nearest hundred metres.

(4)

TOTAL MARKS FOR ACTIVITY 2

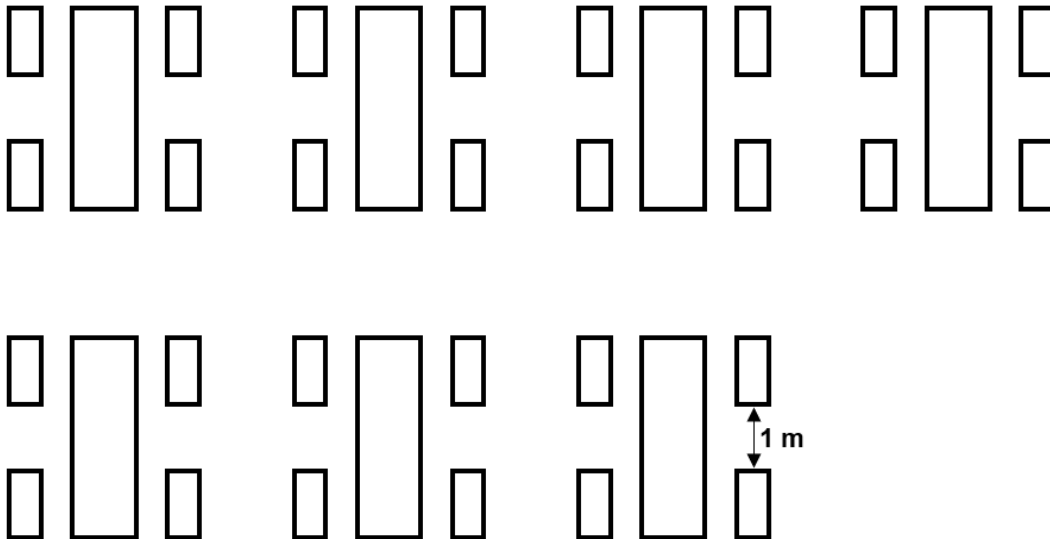
(24)



ACTIVITY 3: OUTDOOR CLASSROOMS

Outdoor classrooms are being constructed at some institutions to avoid close contact of learners during pandemics.

The diagram shows the plan of an outdoor classroom that is being built with eight table groups, each having 1 concrete table and 4 seats. The larger rectangles on the plan represent tables. The smaller rectangles represent seats.



3.1 On the plan, sketch the missing table group, following the same pattern.

(2)

3.2 Lockdown regulations stipulate that learners must be at least 1m apart. If all the seats are occupied, will the regulations be satisfied? Yes or No.

(1)

3.3 Give one possible reason for the wider space between the table groups.

(1)

3.4 Will a class of 31 learners be able to fit in the completed outdoor classroom?
Yes or no.

(1)

3.5 How many table sets will be needed to cater for a class of 43 learners? Show working.

(2)

3.6 Give one additional advantage to having a classroom outdoors, besides the increased distance between learners.

(1)

3.7 Give one possible disadvantage to having a classroom outdoors.

(1)

TOTAL MARKS FOR ACTIVITY 3

(9)

TOTAL MARKS FOR TASK 2

[50]



TOTAL FOR TASK 2: 50 MARKS

	Activity	Maximum Mark	Learner's Mark	Moderated Mark
Task 2	Activity 1	17		
	Activity 2	24		
	Activity 3	9		
	Total: Task 2	50		

