



University of Fort Hare
Together in Excellence

BACHELOR OF EDUCATION: FOUNDATION PHASE

TEACHING (GET BAND)

COURSE CODE: 50045

MEX414E

Subject: Mathematic Education 4 - IsiXhosa- English

Time: 3hrs

Date: July 2023

Marks: 100

This paper consists of 14 pages including the cover page

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INSTRUCTIONS

1. Please read the instructions carefully.
2. Answer all the questions. You can use the last page for your rough work, and please mark it rough work.
3. This is a bilingual (IsiXhosa-English) module. Therefore, you can use any of the two languages to answer the questions, but use one language for a question, unless instructed to use both languages in one question.

QUESTION 1**[20]**

Choose the correct answer from the possible answers. Write only the letter of alphabet of the correct answer and justify your answer.

Khetha impendulo echanekileyo kwiimpendulo ozinikiweyo kumbuzo ngamnye kule mibuzo ilandelayo, uphinde uyicacise impendulo yakho oyikhethileyo.

Example: If the correct answer in 1.1. is D, write: 1.1. D, and justify your answer.

Umzekelo: Ukuba impendulo echanekileyo ku 1.1. ngu D, bhala 1.1. D, uphinde uyicacise impendulo yakho.

1.1. The multiples of 10 are: (2)

A. 2, 4, 6, 8, 10

B. 5, 10, 15, 20

C. 10, 20, 30, 40, 50

D. All of the above

1.2. The place value for 3 in 2 342 is: (2)

A. Three hundred – 300

B. Three hundred and forty two – 342

C. Hundreds – H

D. All of the above

1.3. The concept 'Fraction' in Mathematics means: (2)

A. The total number of objects

B. Dividing a number

C. Part of the whole.

D. All of the above.

1.4. One of the content areas of mathematics is: (2)

- A. Addition and Subtraction
- B. Geometric Patterns
- C. Space and Shape (Geometry)
- D. All of the above

1.5. A cube has (2)

- A. Four sides
- B. Four angles
- C. Six faces
- D. All of the above

1.6. A quadrilateral is a 2D Shape with (2)

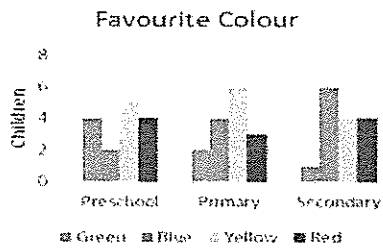
- A. 3 sides and 3 angles
- B. 8 sides and 8 angles
- C. 4 sides and 4 angles
- D. All of the above

1.7. Perimeter is (2)

- A. Distance around the circle.
- B. Volume of a rectangular prism
- C. Distance around a polygon
- D. All of the above

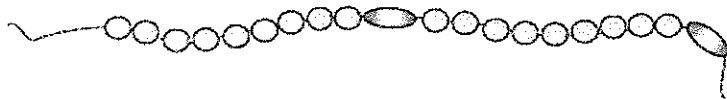
1.8. From the grouped bar chart below, the total number of learners in preschool is:
(2)

GROUPED BAR CHART: Grouped into broad age groups



- A. 5
- B. 13
- C. 15
- D. All of the above

1.9. Learners count out the beads loud emphasizing the.....bead (2)



- A. First
- B. Fifth
- C. Tenth
- D. All of the above

1.10.

Following the sequence of numbers in the table above, the following three numbers to follow are:

	1							
		2						
				4				
								8

A. 12; 16; 20

B. 10; 12; 14

C. 16; 32; 64

D. None of the above

(2)

QUESTION 2

[10]

2.1. Define the difference between numeracy and mathematics. (2)

Chaza umohluko phakathi kwenyumerasi nemathematika.

2.1. 1. Give one example to justify each definition in 2.1 (2)

Nika umzekelo wenyumerasi kunye nowemathematika ukuxhasa impendulo yakho ku 2.1.

2.2. **Fig 1: POSTER**



2.2.1. Does the figure above reflect on mathematics or numeracy? (1)

Ngaba lo mzobo ungasentla ubonisa imathematika okanye inyumerasi ?

2.2.2. Justify your answer in 2.2.1. (1)

Xhasa impendulo eku 2.2.1.

2.2.3. Which mathematics proficiency is applied in Figure 1? (1)

2.2.4. Justify your answer in 2.2.3. (2)

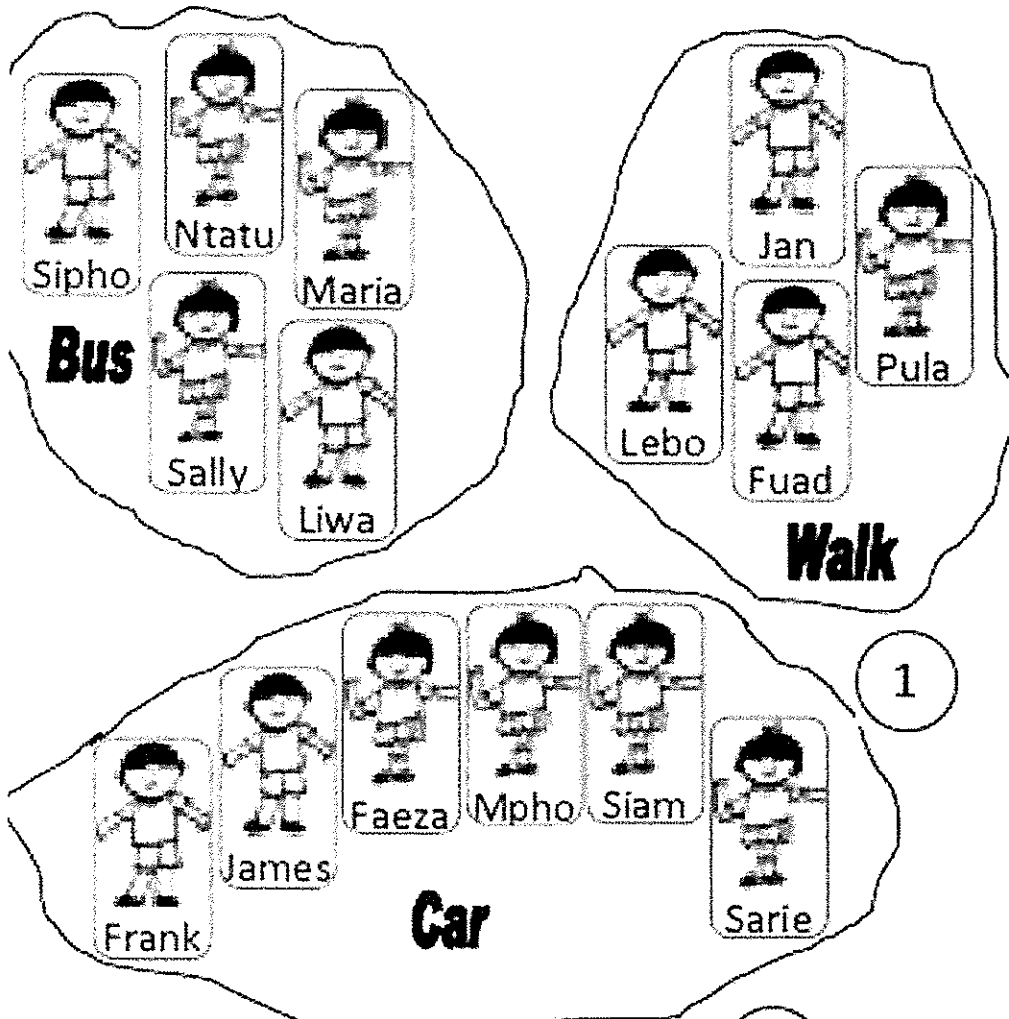
Xhasa impendulo yakho eku 2.2.3.

2.2.5. Which content area is addressed in figure 1? (1)

3.1. Data was collected on the mode of transport used by learners to come to school. The findings are reflected below. Answer the questions that follow.

Kuqokelelwe ulwazi malunga nezithuthi ezisetyenziswa ngabafundi xa basiya esikolweni. Ulwazi olufunyenweyo luboniswe apha ngasezantsi: Phendula imibuzo elandelayo.

FIGURE 2: MODE OF TRANSPORT



3.1.1. Show the findings in tally table. (4)

Bonisa ulwazi kwi tally table

3.1.2. Which mode of transport is most popular than others? (1)

Sesiphi isithuthi esisetyenziswe kakhulu?

3.1.3. Why? (1)

Kutheni usitsho?

3.1.4. How many children participated in this survey? (1)

Bangaphi abafundi abathathe inxaxheba kolu qokelelo lolwazi?

3.2. Why do we have to teach data handling as early as the Foundation Phase? (1)

Kutheni le nto kufuneka sifundise ngolwazi oluqokelelweyo kumabanga aphantsi?

3.3. What steps of collecting data must be followed, from data collection to reporting?

(5)

Ngawaphi amanyathelo omawuwalandele xa uqokelela ulwazi ?

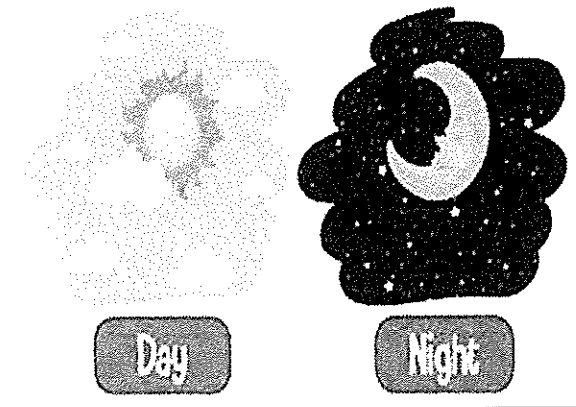
You are a Grade 1 teacher and you have prepared a lesson in which you are going to use the poster that is reflected below as the resource to make your learners understand the lesson.

Ungumfundisi ntsapho webanga lokuqala (Grade 1) kwaye ulungise isifundo oza kusebenzisa kuso lo mfanekiso ungasezantsi njengesixhobo sokwenza abafundi bakho bayive le nto uyifundisayo.

4.1. Refer to the figure to answer the questions that follow.

Sabenzisa umfanekiso ukuphendula imibuzo elandelayo.

FIGURE 3: DAY AND NIGHT



4.1.1. Name the content area in which the above figure is aligned to. (1)

Biza ummandla womxholo owoyamaniswa nalo mfanekiso ungasentla.

4.1.2. Under which topic will you teach about day and night? (1)

Sesiphi isihloko okufundiswa kuso ngemini nobusuku?

4.1.3. Write down the activity that you will do with your learners using the poster in figure 2.

Bhala umsebenzi oza kuwenza nabantwana.

4.1.3.1. What will the teacher do? (5)

Uza kwenza ntoni umfundisi ntsapho?

4.1.3.2. What will the learners do? (3)

Baza kwenza ntoni abafundi?

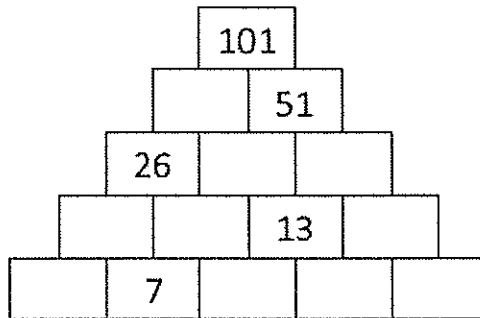
4.1.3.3. What is the aim of the lesson? (2)

Yintoni injongo yesi sifundo?

5.4. Complete the pyramid that follows:

(10)

Gqibezela le pyramid ilandelayo ngokuthi ugcwalise iibhokisi ezingenamanani.



5.5. $243 - 126 = 117$

5.5.1. How do you explain the answer in 5.5.to your Foundation Phase class?
Explain each step if possible.

Uyicacisa njani impendulo eku 5.5.?

Hint: Use the place value method as well as the breaking down of number strategy.

Cacisa usebenzisa ixabiso lendawo okanye ukucazulula amanani.

(a) Place value (3)

(b) Breaking down (5)