# P.3 LESSON NOTES

# FOR MATHEMATICS

# TERM I

| Date | Time | No. of pupils |
|---|---|---|
| | | |

**THEME** : Our sub – county

**SUB-THEME** : Set concept

**SUB- TOPIC** : Naming and writing sets

**COMPETENCES** : The learner

- Tells the meaning of a set
- Names and writes sets

**METHODS** : Explanation - Question and answer technique.

**T/ L AIDS** : Real objects like pencils, counter books

**REF** : Mk pupils bk 3 pg 1

**Content** : Naming and writing sets ( out of class lesson)

A set is a collection of well defined members or elements

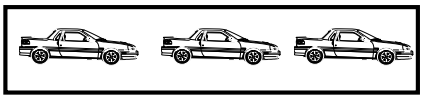
**Naming sets**

**Examples**

Name these sets

1. Set A = {a, e, i, o, u}

   Set A is a set of vowel letters

2.  A set of 3 cars.

Activity

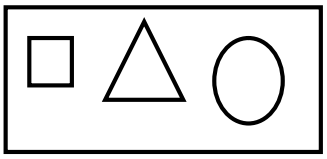
1. Lets name these sets

| |
|---|
| 0, 1, 2, 3, 4,5 |

2. | |
|---|
| Lion zebra monkey buffalo |

3. | |
|---|
| Aisha Joy Sarah |

4. | |
|---|
| Oranges pineapples mangoes |

5. 

6. 

**Writing sets**

Examples

1. A set of the first three letters of the alphabet

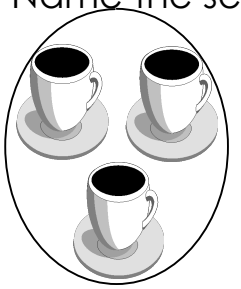
   The set is {a, b, c }

2. A set of 3 common shapes

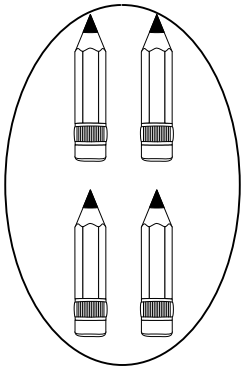
   The set is {  }

Activity

1. Draw down these sets
   a) A set of 3 pet animals.
   b) A set of any three examples of fruits.
   c) A set  of four apples.
   d) A set of five balls
   e) A set of number one to ten
   f)  A set of vowel letters
2. Name the sets



_____



_____

a, e, i, o, u _____

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**THEME** : Our sub – county

**SUB-THEME** : Set concept

**SUB- TOPIC** : Listing members of a set

**COMPETENCES** : The learner

- Identifies the set given
- Lists elements from given sets

**METHODS** **:** guided discovery, illustration

**T/ L AIDS** **:** Real like straws

**REF** **:** Mk pupils bk 3 pg 13

**Content** **:** Listing members of a set

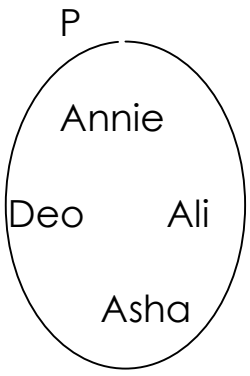
When listing members of a set, we use these symbols.

1. Curly brackets { } which opens and encloses the members.
2. Commas , which separates the members from the other.

**Examples**

**Members in set P are {**Annie, Ali, Asha**}**

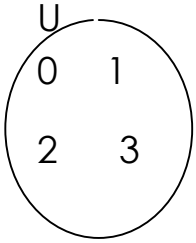
Or P = { Annie, Deo, Isaac, Asha**}**



**Activity**

1. List members of the set below

U




2. S

Mary

Alice, John

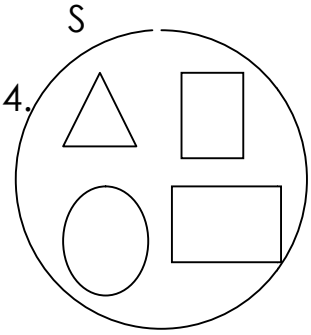
Moses

3. N

cup plate

Fork spoon

4. S



5. P

cow cat

goat dog

6. R



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|---|---|---|
| | | |

**THEME** : Our sub – county

**SUB-THEME** : Set concept

**SUB- TOPIC** : Types of sets

**COMPETENCES** : The learner

- Defines an empty set/ Null set/ void set
- Reads, spells and pronounces the word empty, void, null set

**METHODS** **:** guided discovery, observation

**T/ L AIDS** **:** Use of life situation

**REF** **:** Mk pupils bk 3 pg3 - 6

**Content** **:** Empty set/ Null/ Void

An empty set is the same as null set, void set or empty set.

An empty set is a set without members.

Symbols of an empty set, null, void set are $\varnothing$ or { }

**Examples**

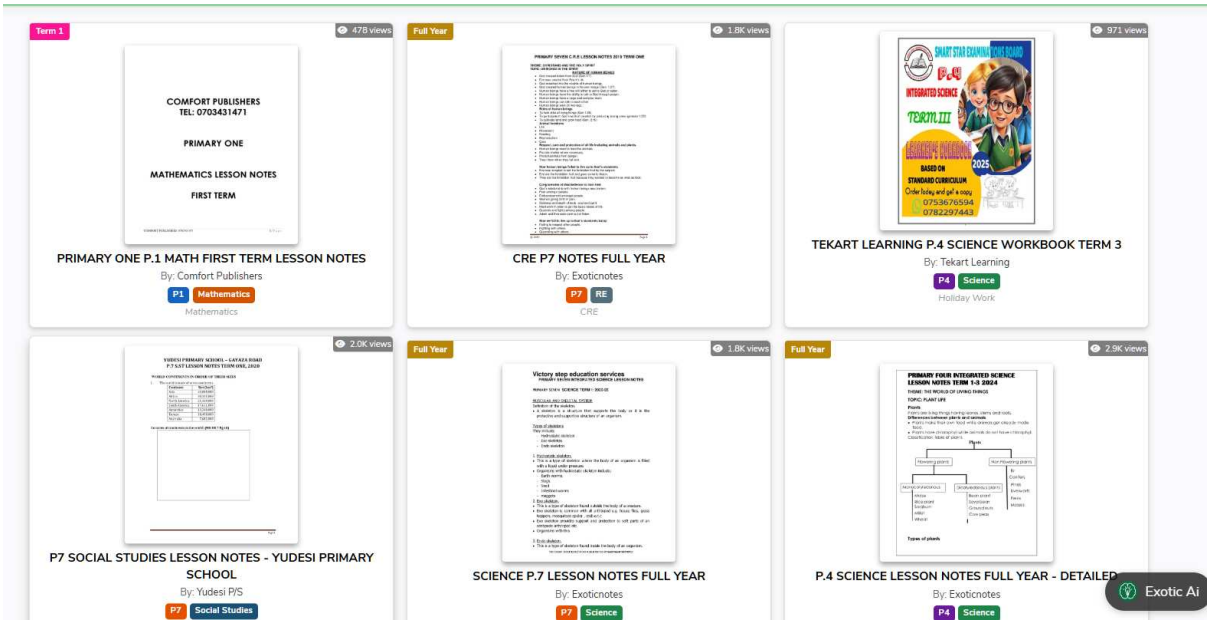
1. The set of pupils over 45 years old in your class.
   It is impossible to have a primary 3 pupils with 45 years so we say it is empty set.
2. The set of buses with three wheels
   It is an empty set.
3. The set of cows with 2 legs = { }

It is an empty set

Activity

1. Write empty or not empty on the following statements
   a) The set of days of the week starting with letter Z
   b) The set of animals with 4 legs each.
   c) The set of dogs with 4 legs each
   d) A set of boys who can fly like birds
   e) A set of insects who can fly
   f) The set of goats with horns
   g) A set of pupils in our class who write with red pens.
   h) A set of cows with ten legs each.
   i) The set of flying fish.
   j) A set of 2 hens with 4 wings
   k) Give two examples of an empty set.

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