

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

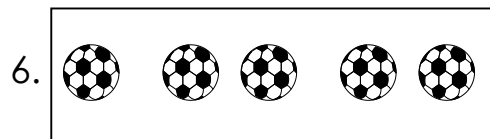
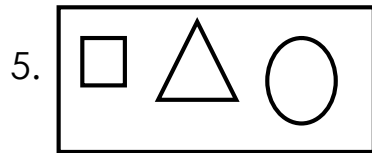
1. Lets name these sets

0, 1, 2, 3, 4, 5

2. Lion zebra monkey
buffalo

3. Aisha Joy Sarah

4. Oranges pineapples
mangoes






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

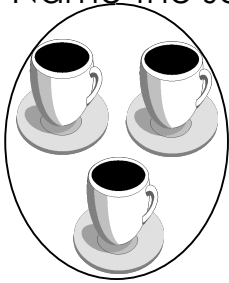
The set is {    }

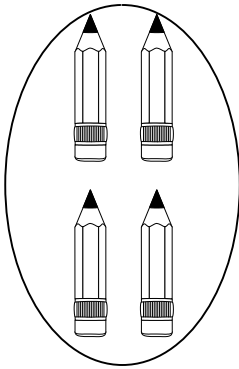
Activity

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







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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

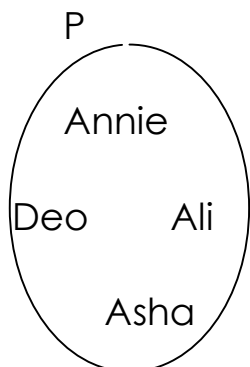
When listing members of a set, we use these symbols.

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

Examples

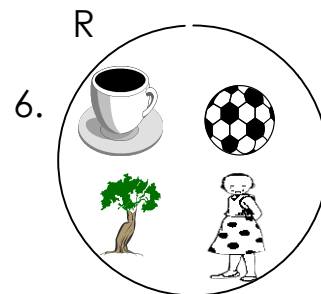
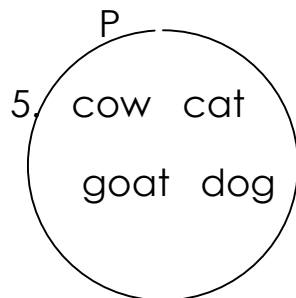
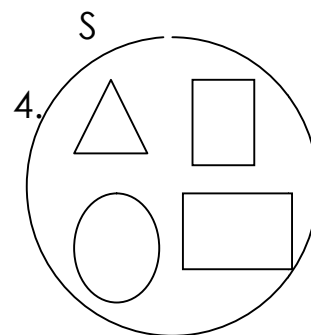
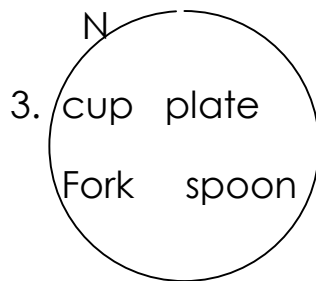
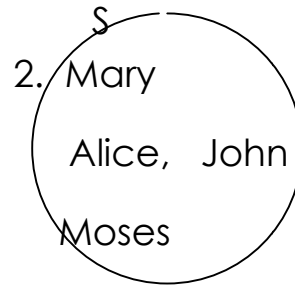
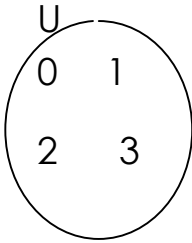
Members in set P are {Annie, Ali, Asha}

Or $P = \{ \text{Annie, Deo, Isaac, Asha} \}$



Activity

1. List members of the set below



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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 \emptyset 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.