SIR APOLLO KAGGWA SCHOOLS SINCE 1996 P.3 NUMERACY HOME STUDY ACTIVITIES

WEEK 2

Name: ___

<u>Types of Sets</u>

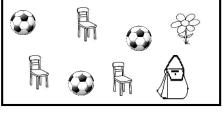
- a) Subsets
- b) Empty sets
- c) Equal sets
- d) Matching/Equivalent sets
- e) Non-matching /non-equivalent sets
- f) Intersection set (\cap)
- g) Union set (\cup)

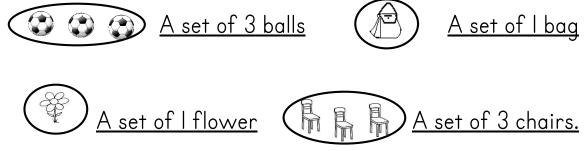
<u>Subset</u>

A subset is a small set got from a big set.

<u>Example</u>

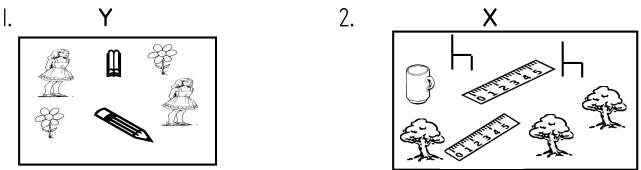
Make small sets from the set below.

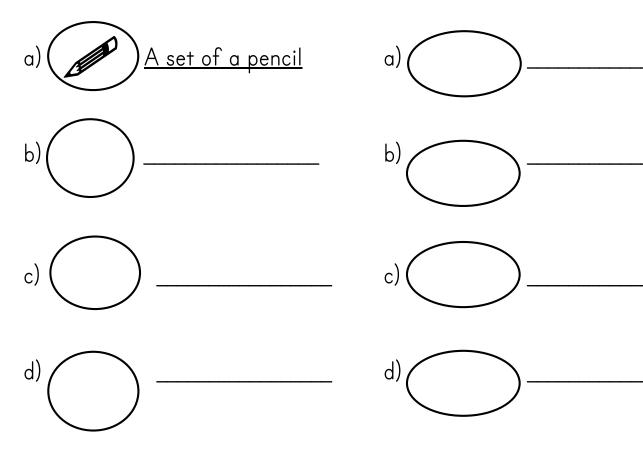




<u>Activity l</u>

Make and name sub sets from the sets below.





Empty or not empty

An empty set is the set with no members.

Or: A set whose members cannot be found.

Symbols for empty or null set are:

 $\{ \} \text{ or } \emptyset$

<u>Example I:</u>

Use empty to complete the statement.

I. A set of girls with 4 legs.

Empty set

Not empty

Not empty is the set whose members can be found or a set with members.

Example I:

Use not empty to complete the statement.

I. A set of cars with 4 tyres.

Not empty set.

Activity 2

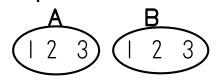
<u>Use empty or not empty to complete the statement below.</u>

a) A set of books made of stones.	
b) A set of birds with two eyes.	
c) A set of vowel letters.	
d) A set of birds without feathers.	
e) A set of girl with breasts.	
f) A set of trees with eyes.	

Equal sets and not equal sets

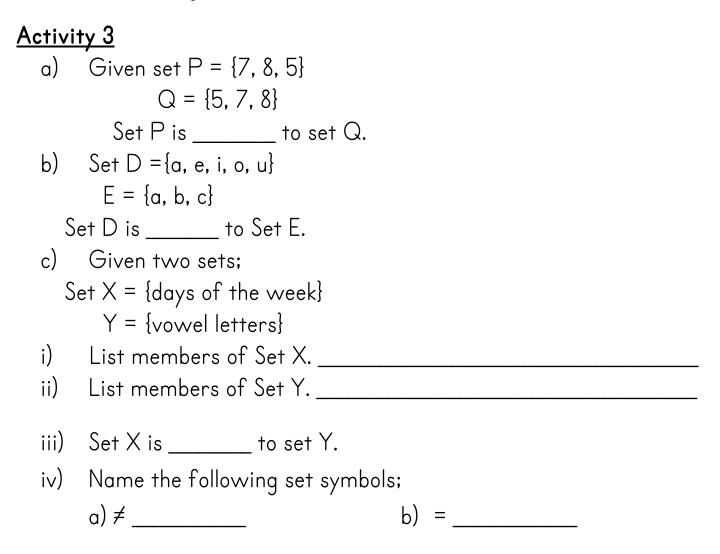
Equal sets

These are sets with same members and same number of members. <u>Example I</u>



Set A has <u>3</u> members. Set B has <u>3</u> members. Since Set A and B have same members, they are <u>equal sets</u>. <u>Symbol</u> = equal to <u>Example 2:</u> Given that B = {I, 2, 3, 4} C = {a, b, c, d} a) How many members are in Set B? <u>Set B has 4 members</u> b) How many members are in Set C? <u>4 members</u> **Note:** Set B and Set C are not equal sets since they have different members.

Symbol ≠ not equal



Making paired sets equal

N.B: This is finding the missing members in a given sets.

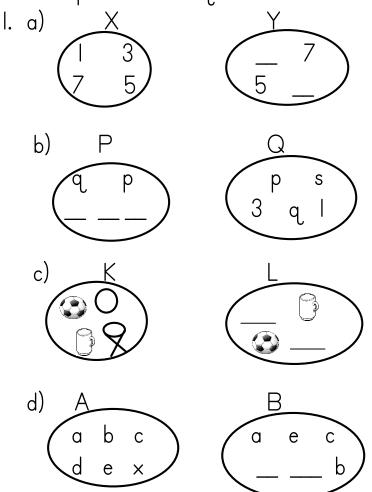
Example I:

Find the missing members in a paired sets.



<u>Activity 4</u>

Make the paired sets equal.



Equivalent/matching sets

Equivalent/matching sets are sets with the same number of members/elements.

N.B: Members may not be the same.

Non-matching/non-equivalent sets.

Non-equivalent sets are sets with different number of members.

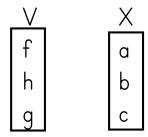
Symbols

-----> Equivalent set

Non-equivalent sets

<u>Example</u>

Given that two sets



Set V has 3 members Set X has 3 members Set V and X are <u>equivalent sets.</u>

Activity 5

- I. Set $P = \{a, b, c\}$ Set $Q = \{p, q, r, s\}$
- a) How many members has set P? _____
- b) How many members has set Q? _____
- c) Set P and Q are _____ sets.



Set X has _____ members

Set Y has _____ members

Set Y and X are _____ sets.