## LESSON NOTES FOR PRIMARY TWO 2019 <br> TERM I MATHEMATICS TOPICAL BREAKDOWN FOR P. 2

1. Sets
i) Naming sets
ii) Drawing sets
iii) Matching sets
iv) Comparing sets
v) Ordering sets
vi) Subsets
vii) Intersection set
viii) Empty sets
ix) Joining (addition sets
x) Subtraction of sets
2. Numeration system and place values
i) Drawing tens and ones
ii) Filling in tens and ones
iii) Showing tens and ones on the abacus
iv) Drawing hundreds, tens and ones
v) Filling in hundreds, tens and ones
vi) Finding place values of the given number
vii) Expanded form
3. Operation of number $s$
i) Addition of tens and ones
ii) Addition of hundreds, tens and ones
iii) Word statements
iv) Addition of number line
4. Multiplication
i) Multiplication as repeated addition
ii) Multiplying two digit numbers by one digit number
iii) Word statements in multiplication
5. Subtraction
i) Subtraction of tens and ones
ii) Subtraction of hundreds, tens and ones
iii) Word statements
iv) Subtraction using a number line
6. Number sequence
i) Counting in ones
ii) Counting in twos
iii) Counting in threes
iv) Counting in fours
v) Counting in fives
vi) Counting tens
7. Graphs
i) picto graph
ii) bar graphs
8. Geometry

Shapes
a) Naming shapes
b) Drawing shapes
c) Matching shapes
d) Colouring shapes

1. Theme 1: Our school and neighbourhood Content: sets What is a set? A set is a collection of things or objects. Naming sets Drawing sets


A set of triangles


A set of cups


This is an empty set


A set of 3 chairs

2. Drawing of sets

A set of four flowers

$\qquad$

A set of six rulers


More work showing the sets to be given to learners.
3. Matching sets

$3+2$
$2+2$
$3+3$

4. Make small sets from the big set

5. Comparing sets

a. Set A has two members
b. Set $B$ has three members
c. Set $C$ has four members
d. Set $A$ has less members than set $B$
e. Set $B$ has more members than set $A$
f. Set $C$ has more members than set $B$
g. Set $A$ and $B$ have five members altogether
h. Set $B$ and $C$ have seven members altogether
6. Ordering sets

We order sets according to number of members in any given set.
Sets can be ordered in the following ways;
a) Ascending order

We start with a set with fewer members so that with more members. (use ordinal nos.)

$$
\begin{aligned}
& 6^{\text {th }} \text { sixth } \\
& \text { fifth }
\end{aligned}
$$

$4^{\text {th }}$ fourth
3rd third
2nd second
$1^{\text {st }}$ first

Example

Arrange the given sets in ascending order


Set $Z$ comes second ( end)
Set $X$ comes third ( 3rd)

## 7. Descending order

We start with a set with more members to that with fewer members
Arrange these sets in descending order (from biggest to the smallest)


Set T comes first ( $1^{\text {st }}$ )
Set R comes second (2 ${ }^{\text {nd }}$ )
Set $S$ comes third ( 3rd)
Set V comes fourth ( $4^{\text {th }}$ )
8. Subsets

What is a subset?

This is a small set got from a big set


Form a big set from the small sets

9. Ringing or grouping sets

Ring sets of twos.


How many groups have you formed?
How many members are in each sub set?
How many members are there altogether?
NB: a teacher has to ring in threes, fours, fives etc.
10. The intersection set

This is the set where we write the common members
Example of intersection areas (common parts)


ก = it is the symbol for intersection set


$$
\begin{aligned}
& A=\{0,1,2,3,4,5\} \\
& B=\{2,4,6,8\}
\end{aligned}
$$

List down the common members

$$
A \cap B=\{2,4\}
$$

How many members are in the intersection set or common parts? Two members
Representing the information on the venn diagram


## 11. Empty sets

An empty set is a set with out or with no members
The symbols of an empty set are


More examples of empty sets
A set of boy with four legs
A cow with three eyes
A girl with two heads Another name for empty set is null set.

## 12. Joining or adding sets


13. Subtraction of sets


4

$$
=
$$


$1=3$ Ref Mk bk 2 pg 9-10
(More of this work will be given to learners)

Topical revision of sets
14. Numeration system and place values

Review of primary one work i.e. counting orally from zero to fifty
Write number names from 0-50
(NB: mind the spellings)

Review of counting from $50-100$ (in tens)
Write number names from 50-100
Counting from 100-200
Write in hundreds from 100-900
NB: Let these can be 3-4 lessons)
(More lessons can be taught from this content depending on the availabity and time)

Number words from 100-1000

## 15. Tens and ones

The teacher should draw ten sticks to show one bundle of tens e.g (Review of P. 1 work)



Draw tens and ones

c) 0 tens and 6 ones $=||||d| 3$ tens and 4 ones $=$

e) 0 tens 8 ones
f) 5 tens and 5 ones
h) 6 tens and 3 ones

- Drawing hundreds, tens and ones.

16. Completing hundreds, tens and ones

T $\mathrm{O}=$
a) $14 \quad 4$ tens 4 ones

T O
b) 56 $\qquad$ tens $\qquad$ ones
c) 3 tens 5 ones $=$ $\square$
d) tens $\qquad$ Ones $=65$
e) $146=$ $\qquad$ hundreds $\qquad$ tens $\qquad$ ones.
f) $200=$ $\qquad$ hundreds $\qquad$ tens $\qquad$ ones.
g) $754=$ $\qquad$ hundreds $\qquad$ tens $\qquad$ ones.
17. Fill in the missing numbers
$\qquad$ tens $\qquad$ ones $=18$ $\qquad$ tens $\qquad$ ones $=7$
$\qquad$ tens $\qquad$ ones $=24$ $\qquad$ tens $\qquad$ ones $=30$
$=0$ tens 6 ones
$\qquad$ $=1$ tens 9 ones
$\qquad$ hundreds $\qquad$ tens $\qquad$ ones $=156$
$\qquad$ hundred $\qquad$ tens $\qquad$ ones $=239$

9 hundred 7 tens 6 ones $=$ $\square$
2 hundred 7 tens 4 ones $=\square$
18. What number is shown on the abacus?




Show each of the numbers on the abacus

$\qquad$

19. Write place value for each digit.
1.


Hundreds
2.

3. 46
4. 702
5. 23
© LESSON NOTES 2019
6. 812
7. 93
8. 06

Write the place values of the circled numbers

1. 1
(9) $3=$ tens
2. 7
(8) $=$ ones
3. (4)
$\begin{array}{ll}0 & 6= \\ (1) & 6= \\ (3) & =\end{array}$
4. What is the place value of 7 in 374 ?
5. Expanded form

Expand these numbers


What number has been expanded?
$13=10+3$
$30=30+0$
$400+0+6=$
$700+0+0=$ $\qquad$
21. Operation of numbers

Addition
$24+10=$ $\qquad$

$\begin{array}{r}20 \\ +\quad 2 \quad 4 \\ \hline\end{array}$
$\begin{array}{r}500 \\ +\quad 2 \quad 3 \\ \hline\end{array}$

22. Word statements

Dora has 24 pens. Daddy gave her more 10 pens. How many pens does she have altogether?

| $T$ | $O$ |
| :--- | :--- |
| 2 | 4 |
| $+\quad 1$ | 0 |
|  | 3 |

NB: The teacher should emphasize the key words in the statements Ref: Mk bk 2 page 35
23. Adding using a number line

$4+4=8$


NB: Teachers should discourage learners from jumping a number lineor using m
24. Multiplication

Multiplication as repeated addition
$2+2+\quad 2=6$
$3 \times 2=6$
3 twos $=6$
$\infty \infty=6$
NB: Continue with 3,4,5 etc

Multiply two digit numbers by one digit number. (vertically) Multiply by ( $2,3,4,5$ )

| 2 |
| ---: |
| $\times \quad 2$ |


| 4 |
| ---: |
| $\times \quad 3$ |

$\qquad$


Word statements about multiplication.
One hen has two legs. How many legs have four hens.
$4 \times 2=\ldots \quad$ legs
NB: Teacher should give more examples.


| 3 | 0 | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: | :---: |
| $X$ |  | 6 |  |  |

26. Subtraction

Ten balls - six balls =
10 balls - 6 balls = $\qquad$ balls
22 eggs - 11 eggs = $\qquad$
Subtraction of two and three digit numbers but without regrouping.
NB: Use the knowledge of place values to re-arrange the figures
a) $36-04$
b) 55-40
36
$\begin{array}{r}3 \\ -\quad 0 \quad \\ \hline\end{array}$
$\begin{array}{r}1 \\ -\quad 40 \\ \hline\end{array}$

| 8 | 2 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| - | 2 | 1 |

27. Word statements

- Sixteen takeaway nine equals = $\qquad$
- Subtract eight from ten equal $\qquad$
- What is the difference between 343 and 140
- A class has 44 children, ten of them are absent. How many are present?
NB: the teacher should give more examples. The teacher should emphasis the key words

28. Subtract using a number line

9-6=3


NB: | Encourage the learner to circle the answer.
29. Number sequence

Count in ones and fill in the missing numbers eg 0,1,2,3, $\qquad$ , $\qquad$ ,6,7, $\qquad$ ,9, $\qquad$
56, 57, $\qquad$ , $\qquad$ , 60
101, 102, 103, $\qquad$ , $\qquad$ 106
NB:

- Teacher will guide the learners to fill in the missing numbers in twos, threes, fives and tens
- Filling in the missing numbers should be done both in ascending and descending order.
- Teach about the numbers; before, after and between


## 30. Graphs

Picto graphs / picture graphs
This is information represented in form of pictures

## Example 1

## Four girls picked eggs on Saturday

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| Ann | Nora | Dora | Sara |

## Questions

1. How many eggs did Dorah pick?
2. Who picked the least number of eggs?
3. Name the children with the similar number of eggs?
4. How many eggs were picked by the four girls altogether?

The teacher should give more examples on picto graphs
32. Bar graph

This is a graph having bars that pupils should study and interprete in order to answer the questions
Ref: fountain primary mathematics book 2 pg 56-59
MK bk 2 page 69

## 33. GEOMETRY

Shapes: Examples of shapes and their sizes

|  |  |  |
| :---: | :---: | :---: |
| Triangle | Square | Circles |
|  |  |  |
| Rectangle | Oval | Cylinder |
|  |  |  |
| Semi circle | Kite | Pentagon |
|  |  |  |
| Cone |  |  |

NB: the teacher should give varying exercises about shapes;

- Matching
- Drawing
- Shading
- Counting
- Naming
- Comparing

Ref: MK bk 2 pg 72

## P. 2 NUMBERS TERM II

## Topical breakdown

1. Capacity

- Defining and identifying liquids
- Comparing capacity
- Addition of litres
- Subtraction of litre
- Word statements

2. Operation of number

- Addition of two digit numbers with regrouping
- Word statement in addition of two digit numbers with regrouping
- Division (short and long without getting a remainder)
- Word statements about division

3. Fraction

- Definition
- Drawing and naming fraction
- Shading fractions
- Reading and writing fractions
- Comparing fractions
- Addition of fractions
- Subtraction of fractions

4. Algebra

- Finding missing numbers by adding
- Finding missing numbers by subtraction
- Word statements about finding missing numbers in addition and subtraction

5. Measurements

- Lengths
- Definition
- Things used to measure length
- Examples of things or objects whose lengths can measured and units to measure length
- Comparing length of different objects
- Addition of length
- Subtraction of lengths
- Picture interpretation

6. Weight (mass)

- Definition
- Things whose weight can be measured
- Things used to measure weight and units comparing weight of different objects
- Subtraction of weight


## LESSON NOTES PRIMARY TWO TERM TWO 2016

## 1. Capacity

Capacity is the amount of liquid a container can hold.
Examples of liquids

## Examples of liquids.

- Water - Paraffin
- Soda
- Cooking oil etc
- Milk
- petrol


## Some of the common containers we use to measure liquids.

- Kettle - glass
- Bottle
- pot
- Bucket
- drum
- Basin
- jerrycan

2. Comparing containers we use to hold liquids.

mug bucket pot jerrycan
A mug holds less water than a bucket.
A pot holds more water than a mug.
A jerrycan holds more water than a pot.
A pot holds less water than a jerrycan.

- The standard unit for capacity is litres (L)
- We can also use $1 / 2$ litre to measure capacity.
- Less liquids like medicine, safi etc are measured in mililitres (ml)


## 3.Practical activity

- Children will use 1 litre and $1 / 2$ litre containers to fill the bigger container.
a) How many $1 / 2$ litre containers can fill a 1 litre container?
b) Find how many $1 / 2$ litres fill a 2 litre container
c) Find how many $1 / 2$ litres fill a 5 litre container?


## 4. Addition of litres



- 2 litres +3 litres $=5$ litres

5 litres +4 litres $=$ litres
9 litres +5 litres +4 litres $=$ $\qquad$ litres

2 litres
$+\quad 7$ litres
+10 litres
24 litres
+13 litres

Word statements.

## 5. Subtraction of litres.

9 litres - 4 litres = $\qquad$ litres

10 litres - 3 litres = $\qquad$ litres

7 litres 36 litres

- 2 litres $\quad-\underline{2} 0$ litres

6. Word statements

Addition of 2 digit numbers with regrouping

| 1 | 6 | 1 | 6 | 2 | 8 |  |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| $+\quad 5$ | + | 8 |  | 7 |  |  |


| 5 | 9 |
| ---: | :--- |
| +1 | 4 |
| $+\quad 1$ | 3 |

7. Word statements in addition of 2 digit numbers with regrouping

- There are 13 boys and 17 girls in P. 2 class.

How many children are there altogether?

- Joan had 26 sweets. Her mother gave her 9 more sweets. How many sweets did she have altogether?


## 8. Division:

The signs used are $\div$ or

## Examples:

$4 \div 2$
$6 \div 3$
$10 \div 2$

## 9. Long division

$16 \div 4$
$25 \div 5=$
$20 \div 5$
$18 \div 2=$
$24 \div 4$
$21 \div 3=$

## Examples:


$2 \quad 12$
420
$4 \longdiv { 1 6 }$
3
30
$5 \longdiv { 1 5 }$
$5 \longdiv { 2 5 }$
$2 \longdiv { 2 2 }$
$3 \longdiv { 1 5 }$

## 10.statements

## Examples

1. Share 4 mangoes equally between 2 girls

How many mangoes does each get?
2. Divide 12 by 2
3. 4 boys shared 24 pencils equally.

How many pencils did each get?
4. Divide 24 by 3

## 11. Fractions

A fraction is a part of a whole.

- cutting, folding and naming fractions (practical work)


## Examples:



a half

a quarter

a third

## Naming fractions.

12. Identifying the fraction of the shaded part

## Examples:

(a)

(b)

(c)
2
4
$\square$


## 13. Shading the given fraction

Examples:

## Shade these fractions



## 14. Comparing fractions.

- Using bigger than or smaller than (practical work)
- Using greater than, less than or equal to
(>)
(<)
$=$


## Examples:



Which part is bigger?
Which part is smaller?

## 15. Use greater than, less than or equal to ( $>,<$ or $=$ )

$1 / 2$ is $\qquad$ $1 / 4$
$1 / 4$ is $\qquad$ 1/3
$1 / 3$ is $\qquad$ $1 / 3$

## 16. Fraction of the unshaded part

What fraction is unshaded? (not shaded) © LESSON NOTES 2019

## Examples:


(b)

(c)
17. Addition of fractions with the same denominations

Examples:
(a) $\frac{1}{2}+\frac{1}{2}=\frac{1+1}{2}=\frac{2}{2}=1$
(b) $\frac{1}{4}+\frac{2}{4}=\frac{1+2}{4}=\frac{3}{4}$
(c) $\underline{2}+\underline{3}+\underline{1}=\underline{2}+3+1=\underline{6}$
$\begin{array}{llll}9 & 9 & 9 & 9\end{array}$
Word statements
18. Subtraction of fractions.

Examples:
(a) $\frac{3}{4}-\frac{2}{4}=\frac{3-2}{4}=\frac{1}{4}$
(b) $\frac{5}{9}-\frac{3}{9}=$
(c) $\frac{7}{10}-\frac{5}{10}=$

Word statements
19. ALGEBRA:

Find the missing numbers
Examples:

$$
\square+4=7
$$

$\square+6=10$
$8+\square=12$
$5+\square=15$
20. Word problems:

## Examples

1. $\qquad$ plus four equals seven.
2. $\qquad$ plus zero equal nine.
3. Ten plus $\qquad$ equals twelve.

## Revision:

## 21. Finding missing numbers in subtraction

## Examples:

1. $9-3=\square$
2. $\quad 5-0=\square$
3. $10-\square=4$
4. $8-\square=6$
5. $15-\square=10$
6. Find the missing numbers when the box is at the beginning of a statement

## Examples:

1. $\square-3=6$
2. $\square-7=10$
3. $\square-5=12$
4. $\square-0=15$
5. Word problems

## Examples:

1. Eight takeaway three equals $\qquad$
© LESSON NOTES 2019
2. Ten takeaway three equals $\qquad$
3. Seven takeaway $\qquad$ equals fifteen.
4. Sixteen takeaway $\qquad$ equals twelve.
5. $\qquad$ takeaway three equals seven.

## Topical revision exercise:

## 24. Length

Length is how long or short an object is. Or
Length is the distance between two points.

## 25. Things we use to measure length

- meter ruler
- short ruler
- string
- stick
- stride
- Measuring different objects at school practically - using strings, sticks, strides, arm's length etc.


## 26. Comparing length of different objects



String $A$ is longer than string $B$


Tree x is taller than tree Y .
Tree $Y$ is shorter than tree $X$.
The units for length are metres ( m ) and centimeters (cm)
27. Addition of length.
$7 m+2 m=$
$9 m+4 m+2 m=$
6 cm
$\begin{array}{r} \\ +\quad 2 \mathrm{~cm} \\ \hline\end{array}$

| 3 | 2 cm |
| ---: | ---: |
| +1 | 4 cm |


28. Picture interpretation:

(a) What is the distance from the house to the tree?
(b) What is the distance from the tree to the girl?
(c) What is the distance from the house to the girl?
(d) What is the longest distance?
(e) What is the shortest distance?
(f) What is the total distance around the pictures?
29.Subtraction of length.

| $9 m-6 m=\ldots m$ |  |  |  | $8 \mathrm{~cm}-3 \mathrm{~cm}=\ldots \ldots \mathrm{cm}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $14 \mathrm{~m}-5$ | $=\ldots \mathrm{m}$ |  |  | m | _cm |
| 1 | 6 m | 2 | 6 m | 4 | 9 m |
| - | 4 m | -1 | 3 m | -3 | 4m |
| 6 | 3 cm | 7 | 4 cm |  |  |
| -2 | 0cm | -1 | 4 cm |  |  |

## 30. Weight( mass)

How heavy or light someone or something is.
Weighing different objects practically
For example; stones, books, bags etc.

- Weighing children in class using the weighing scale.

NB: show learners the different kinds of weighing scales.

## 31. Comparing the weight of different objects

Using heavier than or lighter than,
1.

(a) Which object is heavier?
(b) Which object is lighter?
2.
(a) Who is lighter?

(b) Who is heavier?
3.

(a) Which box is heavier?
(b) Which box is lighter?

Introducing standard units in weight.
Kilograms (kg)
Grams (g)

## 32. Addition of weight

$$
\begin{gathered}
5 \mathrm{~kg}+3 \mathrm{~kg}=\ldots \ldots \mathrm{kg} \\
13 \mathrm{~kg}+4 \mathrm{~kg}= \\
1 \quad 2 \mathrm{~g} \\
+1 \quad 4 \mathrm{~g}
\end{gathered}
$$

$10 \mathrm{~kg}+7 \mathrm{~kg}=$
$3 \quad 6 \mathrm{~kg} \quad 4 \quad 5 \mathrm{~kg}$

$$
+1 \quad 2 k g
$$

$$
+
$$


33. Subtraction of weight

$$
\begin{aligned}
& 10 \mathrm{~kg}=3 \mathrm{~kg}=\ldots \ldots \mathrm{kg} \\
& 14 \mathrm{~kg}-5 \mathrm{~kg}=\ldots \ldots \mathrm{kg}
\end{aligned}
$$

$$
\begin{array}{r}
1 \quad 9 \mathrm{~kg} \\
-\quad 6 \mathrm{~kg} \\
\hline
\end{array}
$$

$\qquad$
$5 \quad 4 g$
$2 \quad 3 \mathrm{~kg}$
-1 3kg
$\qquad$
$7 \quad 4 g$
$9 \quad 4 \mathrm{~kg}$
-5 0kg
$\qquad$
$6 \quad 6 \mathrm{~kg}$

## P. 2 NUMBERS TERM III LESSON NOTES

## Topical breakdown

## 1. MEASURES

a) Time (introduction)
b) Telling time in full hours
c) Showing time in full hours
d) Telling time in half past
e) Showing time in half hours
f) Telling time using a quarter past......
g) Showing time using a quarter past......
h) Telling time using a quarter to ........
i) Showing time using a quarter to
j) Telling time using ...... minutes past ..... minutes to
k) Addition of time - horizontally

- vertically
- word statements
I) Subtraction of time - horizontally
- vertically
- word statements
m) Days of the week
n) Months of the year.
o) Months and their days
p) The calendar.


## 2. OPERATION ON NUMBERS

a) Subtraction of numbers without regrouping up to three digits.
(Vertically)
b) Subtraction of numbers while regrouping. (2 digits by 1 digit)
c) Subtraction of bigger or greater numbers while regrouping (2 digits by 2 digits)
d) Subtraction of greater numbers while regrouping (3 digits by 2 or 1 digit)
e) Word statements in subtraction with regrouping.

## 3. MEASURES

## Money

a) Definition/ introduction of money
b) Types/ examples of money
c) Sources of money
d) Uses of money
e) Denominations
f) Changing money
g) Addition of money - horizontally

- vertically
- word statements involving addition.
h) Subtraction of money - horizontally
- vertically
- word statements involving subtraction.
i) Multiplication of money - horizontally
- vertically
- word statements involving multiplication.
j) Money and shopping

4. ALGEBRA
a) Completing algebraic statements of multiplication (horizontally \& vertically)
b) Word statements involving multiplication.
c) Completing algebraic statements of division (horizontally \& vertically)
d) Word statements involving division.
5. TIME
6. There are 12 hours during the day.
7. There are 12 hours during the night.
8. Twenty four hours make a day.
9. There are 12 hours/ numbers in a clock face.
10. There are different activities done during the day and those done during the night.
11. There are five minutes from one hour to another.
12. There are 60 minutes in an hour.
13. There are 30 minutes in half an hour.
14. There are three hands in a clock face.
15. A clock face can be circular, rectangular, squared.
16. When the long hand points to 12 , we say the hour where the hour hand is pointing.


Qn: What time is it?
It is two o' clock.

## Activity

2. Tell the time in full hours

3. Show the time in full hours.


It is four o'clock

it is twelve o'clock

Note:

- More of this work will be done in pupil's books
- Pupils will write the time using words not figures as we emphasize in English and literacy 1.
Ref: Mk. Pri. MTC Bk. 2 Pg. 131

4. Telling and showing time on a clock face using a half past... Note: When the minute hand points to 6, we say,


Activity
Show correct time


Note:

- More of this work will be given to learners
- Teacher can use paste work in order to waste time

5. A quarter past ( 15 minutes past/fifteen minutes past)


## Activity

A quarter past nine


A quarter past one

6. How we can use a quarter to or ........ to.

When the minute hand points to 9 , we only count the minutes remaining to reach 12


It's a quarter to 3

it's a quarter to 7

## Activity

me shown
a) Pupils will be helped to tell time shown
b) Pupils will be helped to show given time
7. More work on time will be given. (mixed work on time)

$3 \mathrm{~min}+4 \mathrm{~min}=$ $\qquad$ min
5 hours +10 hours $=$ $\qquad$ hours
6 hours +4 hours +2 hours $=$ $\qquad$ hours
24 hours +12 hours $=$ $\qquad$ hours
17 hours +9 hours $=$ $\qquad$ hours.
More addition of time (vertically)

10. Read the word statements, copy the figure and add time correctly.
a) Mr. Musoke taught for 7hrs. Mr. Ntuuyo taught for 6hrs. How many hours did both of them teach?
b) A bus driver drove for 103hrs. The lorry driver drove for 217 hrs .
i. What is their total time?
ii. Who drove for more hours
iii. How many more hours did the lorry driver drove than the bus driver?
iv. What is the difference between their time?
11. Subtraction of time.

Pupils will be helped to subtract time horizontally.
a) $9 \mathrm{hrs}-7 \mathrm{hrs}=$ $\qquad$ hrs
b) $14 \mathrm{hrs}-9 \mathrm{hrs}=\ldots \quad$ hrs
c) $25 \mathrm{~min}-10 \mathrm{~min}=$ $\qquad$ min
d) $100 \mathrm{hrs}-50 \mathrm{hrs}=$ $\qquad$ hrs
e) What is fifteen minute take away ten minutes equal to?

More work on subtraction of time vertically


Work statements on subtraction of time.
a) Find the difference between 24 hrs and 13 hrs .
b) What is 376 min and 124 min less?
c) A motorcycle moved for 836hrs. A lorry moved for 736hrs. Find the difference between the hours.

## 13. Days of the week.

Pupils will be taught the days of the week in their orders.

- Sunday is the first day of the week.
- Monday is the second day of the week.
- Tuesday is the third day of the week.
- Wednesday is the fourth day of the week.
- Thursday is the fifth day of the week.
- Friday is the sixth day of the week.
- Sarturday is the seventh day of the week.

Teacher will give oral questions about the days of the week.
Fill in the missing days of the week.
a) Sarturday, $\qquad$ , Monday, $\qquad$ , Wednesday, $\qquad$
b) Tuesday, $\qquad$ , Thursday, $\qquad$ , Sarturday, $\qquad$
c) Sarturday, $\qquad$ , Thursday, $\qquad$ , Tuesday, $\qquad$
d) Monday, Sunday, $\qquad$ , $\qquad$ , $\qquad$
e) Wednesday, $\qquad$ , Friday, $\qquad$ , Sunday, $\qquad$
Pupils can write days from jumbled letters.
14. More questions about days of the week.
a) How many days are there in two weeks?
b) What is the fifth day of the week?
c) Write the days of the week that begin with letter $S$.
d) When do you go for Juma prayers?
e) For how many days do you come to school?
f) On which day of the week do Christians go to church?
g) What is the second day of the week?
h) How many days form a week?

Ref: A new MK primary MTC. Bk 2 pg 122

## 15. Months of the year.

There are twelve months in a year.
There are 365 or 366 days in a year.
Different months have different days.
Months have names according to the area/region.
Below are months of the year in their correct order.

| January | July |
| :--- | :--- |
| February | August |
| March | September |
| April | October |
| May | November |
| June | December |

Teacher can formulate questions from the lesson basing on the time and ability of the learners.
16. Months of the year and their days.

January 31 days
February 28/29 days
March 31 days
April 30 days
May 31 days
June 30 days

July 31 days
August 31 days
September 30 days
October 31 days
November 30 days
December 31 days

- Teacher will give the learners a trick of learning months and their days easily.
- Teacher will formulate question from that lesson.
- Pupils will discuss answers orally with their teacher.
- Pupils will do an activity with their teacher.

Ref: Mk. Bk. 2 pg. 134 Pr. mtc for Ug. Bk2
© LESSON NOTES 2019
17. The calendar.

## September 2014

| Sunday |  | $7^{\text {th }}$ | $14^{\text {th }}$ | $21^{\text {st }}$ | $28^{\text {th }}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Monday | $1^{\text {st }}$ | $8^{\text {th }}$ | $15^{\text {th }}$ | $22^{\text {td }}$ | $29^{\text {th }}$ |
| Tuesday | $2^{\text {nd }}$ | $9^{\text {th }}$ | $16^{\text {th }}$ | $23^{\text {rd }}$ | $30^{\text {th }}$ |
| Wednesday | $3^{\text {rd }}$ | $10^{\text {th }}$ | $17^{\text {th }}$ | $24^{\text {th }}$ |  |
| Thursday | $4^{\text {th }}$ | $11^{\text {th }}$ | $18^{\text {th }}$ | $25^{\text {th }}$ |  |
| Friday | $5^{\text {th }}$ | $12^{\text {th }}$ | $19^{\text {th }}$ | $26^{\text {th }}$ |  |
| Saturday | $6^{\text {th }}$ | $13^{\text {th }}$ | $20^{\text {th }}$ | $27^{\text {th }}$ |  |

Activity.
a) Pupils will make numbers ordinal
b) Pupils will answer questions about the calendar orally.
c) Pupils will write the calendar in their books.
d) Pupils will do an exercise about the lesson.
18. Operation on numbers(let the pupils together with the teacher subtract without regrouping.)

Subtraction with regrouping.
a) Two digits on top and one digit below.


Note: teach the learners to master that we regroup when the number on top is less.


Activity a)


1 is less than tens go to

tens and borrow 1 ten
$11-7=4$
$1-1=0$

19. b.

C.

20. d.

(Two digits by two digits)

(Three digits by two digits)

(Three digits by three digits)


These are many lessons. Teachers should be systematic and considerate.
21. Word problems on subtraction with regrouping.

Pupils will be helped to read the statements. Write them and copy out numbers correctly.

## Example 1

a) Mary had 25 eggs. 19 of them got broken. How many eggs remained?

| T | $\bigcirc$ |  |
| :---: | :---: | :---: |
| 12 | (15eggs | ООООООфффф |
| -1 | 9eggs |  |
| - | 6eggs | six eggs remained. |

## Example 2

b) In a basket, there were 321 apples. 17 of them got rotten. How many apples remained?


Three hundred four apples were good.
(More of this work will be given to the learners.)
22. MEASURES:

Money:
a) What is money?

Money is what we use to buy what we want.
Money is a medium of exchange

## Introduction

Long ago, people used to exchange goods for goods and services for services. This was known as Barter trade. As time went on, people introduced Cowrie shells as money to pay for goods and services. When Indians came, they introduced rupee (rupia). When the people became modern, they improved on the rupee and formed shillings both in coins and notes which are used up to today.
b) Examples of money used in different countries.

- In Uganda we use shillings.
- In Kenya they use shillings.
- In Nigeria they use Naira.
- In England/United Kingdom they used pounds.
- In America they use American Dollars.
- In Rwanda they use Franks/ mafarang.
c) Uses of money.

Money is very useful in day to day life. We use money to run many things.

- Money is used to buy basic needs.
- We use money to pay for different bills.
- We use money to pay school dues.
- We use money to buy building materials.
- We use money to buy land and to buy cars.

Note: Pupils will mention many more things they know about money.
23. Examples of cons used in Uganda.
a) 50 (fifty shillings coin)

100 (one hundred shillings coin)
200 (two hundred shillings coin)
500 (Five hundred shillings coin)
1000 (One thousand shillings coin)
Note: Teacher will allow pupils have a look at all the above coins. They will tell the features on the coins. They can also trace these cons.
b) Examples of notes used in Uganda.

1000 (One thousand shillings note)
2000 (Two thousand shillings note)
5000 (Five thousand shillings note)
10,000 (Ten thousand shillings note)
20,000 (Twenty thousand shillings note)
50,000 (Fifty thousand shillings note)
Note: Each of the above notes will be shown to the pupils and different features will be discussed.
c) What do you see on this coin or note?

- On a fifty coin?

A head of a Kob with long horns The coat of arms

- On a two thousand shilling note? It is blue in colour.


## 24. Changing money.

Teacher should use real coins and notes for children to get the concept.
How many coins of .
add up to ............?
a) How many coins of sh. 50 add up to sh.100?
© LESSON NOTES 2019
b) How many coins of sh. 100 add up to sh.200?
c) How many coins of sh. 500 add up to sh. 1000?
d) How many coins of sh. 100 add up to sh.400?
e) How many notes of sh. 1000 make sh.2000?

Note: More work will be given to the learners considering the time and ability.
25. Adding money horizontally
a) $\mathrm{Sh} .50+$ sh. $50=$ sh.
b) $\mathrm{Sh} .100+$ sh. $50=$ sh.
c) $\operatorname{Sh} .200+$ sh. $100=$ sh.
d) $\operatorname{Sh} .300+$ sh. $100+$ sh. $200=$ sh.
e) $\operatorname{Sh} .500+$ sh. $500=$ sh. $\qquad$
26. Money.

Add money correctly. Arrange figures going down.
a) sh. 300
sh. 150 sh. 700
sh. +50
+sh. 100 $\qquad$
$\qquad$
$\qquad$
$\qquad$
b) sh. 1000
sh. 4000
sh. 5000

+ sh. 1500
+sh. 350
$+\underline{\text { sh. } 3000}$

27. Word statements(pupils can divide the pages)

Read the statement, understand it, copy out the figures and add correctly.
a) Rhena has sh. 150.

Mercy has sh.200. How much money do the girls have?
Sh. 200
+sh. 150
b) Add sh. 900 to sh. 500 . What do you get?
c) Find the sum of sh. 50 and sh. 50 .
d) Tr.Doreen had sh.5000. Mr.Kafeero gave her more sh.3000. How much money did she spend altogether?

More of such work will be given to leaners

## 28. Subtraction of money. (Horizontally)

a) $\mathrm{sh} .100-\mathrm{sh} .50=$ sh. $\qquad$
b) sh. $200-$ sh. $100=$ sh. $\qquad$
c) $\operatorname{sh} .500-$ sh. $400=$ sh. $\qquad$
d) sh. $1000-$ sh. $500=$ sh. $\qquad$
e) $\operatorname{sh} .750-$ sh. $700=$ sh. $\qquad$
29. Arrange the figures vertically and subtract.

30. Read the statements carefully, subtract and show how you get the answer.
Semusu had sh.900. He used sh.750. How much money did he remain with?


He remained with sh. 150 .
Peter had sh.1000. He gave away sh.500. How much money remained? Sh. (10)0 0

| Sh. 500 |
| :--- |
| Sh. 500 |

More work will be given to the learners.
31. Money and shopping at the market.


Cabbage
Sh. 700

sugarcane
sh. 300


orange sh. 100

apple sh. 500
a) What is the cost of a pineapple?
b) Find the cost of a cabbage and an orange.
c) How much will daddy pay for 2 apples?
d) Find the cost of a sugarcane and cabbage.
e) Find the total cost of 3 sugarcanes.

- Pupils will read the questions with teacher's guidance.
- Pupils will do some numbers on the chalkboard.
- Some work will be done in pupil's books.

32. Shopping at the shop/ supermarket


A book
a pencil
a cake
Sh. 200
sh. 500
sh. 800

sh. 350

Study the prices carefully and answer the questions.
a) What is the cost of a cake?
b) What is the most expensive item?
c) What is the cheapest item?
d) How much shall I pay for 3 pencils?
e) What is the cost of a book, aruler and a cake?

More of such questions will be given to the learners.
Note:
Teachers can give more of such work as revision, morning work or an additional homework.
33. Multiplication of money.

© LESSON NOTES 2019
b)

$$
\text { sh. } 300
$$


sh. 1000
sh. 400

$\qquad$

$\qquad$
34. More multiplication of money
b) One cake costs sh.300. Find the cost of 3 cakes.

$0 \times 3=0$
$0 \times 3=0$
$3 \times 3=9$
Matiya bought 3 sambusas each at 500/=. Find the total cost.
Sh. $500 \quad 0 \times 3=0$
X $\quad 30 \times 3=0$
Sh. $15005 \times 3=15$
If a book costs $150 /=$ what is the cost of 2 books?
Sh. $150 \quad 0 \times 2=0$
$\times \quad 2 \quad 5 \times 2=10$
Sh. $300 \quad 1 \times 2=2+1=3$
35. Study the price list below and use it to answer the questions.
Item

A bag
Carrots
A belt
A kilo of meat
Blue band
price
sh.10,000
sh.1,000
sh.3,000
sh.7,000
sh.1,500
a) How much is a tin of blueband?
b) What is the cost of 2 carrots?
c) How much is a kg of meat?
d) If Ann has sh.2,000 and buys carrots. How much money will she remain with?
e) If Mummy had sh.10,000 and bought a bag. How much balance will she get back?

- Teacher will formulate more questions from the price lists.
- Teacher will guide learners to get correct answers.


## 36. ALGEBRA:

Complete the mathematical statements sensibly.
Example 1
$\square \times 2=6$
Note: When a missing number is at the beginning and sign in multiplication, we divide the given numbers to get the answer. So the statement will be,

$$
\begin{aligned}
3 \times 2 & =6 \\
& =6 \div 2 \\
& =3
\end{aligned}
$$

$$
\begin{aligned}
5 \times \sqrt{2} & =10 \\
& =10 \div 5 \\
& =2
\end{aligned}
$$

- Teacher will give as many examples to the learners as possible to help them grasp the concept.
- Teacher will give numbers to individuals, groups and then in books.

37. Activity

| $\square \times 3=9$ |
| :--- |
| $\square$ |
| $\square 4=8$ |
| $\square$ |
| $\square$ |
| $\square$ |
| $\square$ |$=125$

$$
4 \times \square=16
$$

$$
5 \times \square=15
$$

$$
2 \times \square=20
$$

$$
3 \times \square=18
$$

Note: let the activity be related to the examples given.
38. Complete the statements arranged vertically

| $\frac{2}{2}$ |  |
| ---: | :--- |
| $\times \frac{6}{12}$ | $=12 \div(6)$ |
| $\frac{5}{x}$ | $=15 \div(5)$ |
| $\frac{3}{15}$ | $=3$ |

- More of such work will be given on the chalkboard for individuals and groups.
- An exercise will be given to the learners in their books.

39. Read the statement and form an algebraic statement then complete it correctly.
a) Think of a number, multiply it by two and get 16 as your answer. What is the number?

$$
\begin{aligned}
8 \times 2 & =16 \\
& =16 \div 2 \\
& =8
\end{aligned}
$$

b) Think of a number, multiply it by 3 . You will get 9 as your answer. What is the number?

$$
\begin{aligned}
3 \times \sqrt{3} & =9 \\
& =9 \div 3 \\
& =3
\end{aligned}
$$

40. Completing statements involving divisions.
a) $6 \div 3=2$

$$
=6 \div 2
$$

$$
=3
$$

Note:
These are direct statements. To get the answer you need to divide right away and get a correct answer.
41.

$$
\text { b) } \quad \square \div 4=4
$$

Note:
Here, in such statements when the box is at the beginning and the sign is a division sign, you will have to multiply because you are looking for a bigger number.
So, 1 10: $\div 4=4$

$$
\begin{aligned}
& =4 \times 4 \\
& =16
\end{aligned}
$$

c) $18 \div 3=6$

$$
=6 \times 3
$$

18

- More examples will be given to the learners.
- More practice is needed because the concept is not easy.
- There is need for one to one teaching.

42. Read the statements, copy out the figures and complete correctly.
a) Find the box if divided by 2 you get 8

| $\div 2$ | $=8$ |
| ---: | :--- |
|  | $=8 \times 2$ |
| $=$ | 16 |

Box is equal to sixteen.
b) Think of a number, divide it by 3 . The answer is 3

$$
\begin{aligned}
9 & \div 3
\end{aligned}=3
$$

