

TEACHERS' HANDBOOK

# PRIMARY ONE LESSON NOTES



Name:

School:

STANDARD CURRICULUM

PRIMARY ONE LESSON NOTES TERM I 2024

0775787978/0742845900

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# Term I mathematics topical breakdown for P.1

- 1. Numeration system
  - i) Counting objects and numbers 1-20
  - ii) Counting and writing numbers 1-20
  - iii) Matching pictures to numbers
  - iv) Counting numbers from 21-50
  - v) Filling in the missing numbers
  - vi) Numbers which come after
  - vii) Numbers which come between
  - viii) Numbers which come before
  - ix) Comparing pairs of numbers up to 50 using smaller (less),/ greater(bigger)
  - x) Arranging the numbers from the smallest to the biggest
  - xi) Arranging the numbers from big to small
  - xii) Numbers words from 0 20, 21 35, 36-50
- 2. Sets
  - i) Definition
  - ii) Naming sets
  - iii) Drawing sets
  - iv) Empty sets
  - v) Matching sets
  - vi) Comparing sets
  - vii) Forming small sets from big set
  - viii) Forming a big set from small sets
  - ix) Joining sets
- 3. Operation on numbers
  - i) Addition of numbers less than 20 (horizontally and vertically)
  - ii) Word problems involving addition of numbers
  - iii) Adding using a numberline
  - iv) Subtraction of numbers less than 20 (horizontally and vertically)
  - v) Word statements involving subtraction
- 4. Place values
  - Tens and ones (drawing and counting)
  - ii) Counting in tens
  - iii) Counting tens and ones
  - iv) Filling in the missing tens and ones
  - v) Drawing sticks to show tens and ones
  - vi) Presenting numbers on the abacus
  - vii) Expanding numbers
  - viii) Adding tens and ones
  - ix) Word statements in addition of tens and ones
  - x) Subtraction of tens and ones
  - xi) Word statements in subtraction of tens and ones

### Lesson notes for primary one term one

Theme: our school

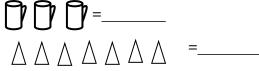
Topic: Numeration system

Counting objects and numbers from 1-20

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

### Activity

Count and write the number

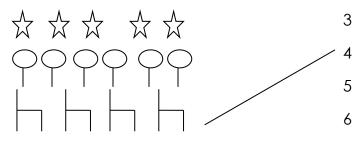


**② ③ ③ ③ ③ ③** 

Counting and writing numbers 1-20

1, 2, 3, 4, \_\_\_, 6, \_\_\_, 8, \_\_\_, 10, \_\_\_, 13, \_\_\_, 16, 17, \_\_\_, 19, \_\_\_

Matching pictures to numbers



Fill in the missing numbers

- a) 2, 3, \_\_\_\_, 6 b) 9, 8, \_\_\_\_, 6, \_\_\_\_, 4

Counting numbers from 21-50

21, 22, 23 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50

Fill in the missing numbers

- a) 21, 22, \_\_\_, \_\_\_, 25, \_\_\_, \_\_\_, 28
- b) 30, 31, \_\_\_, 33, \_\_\_, \_\_ 36
- c) 41, 42, \_\_\_\_, 45, \_\_\_\_,

Which number comes right after?

2, \_\_\_\_

9, 12,

19, \_\_\_\_\_

49, \_\_\_\_

6, \_\_\_\_

22, \_\_\_\_

16, \_\_\_\_

34, \_\_\_\_

	_ numbers co	omes right af	ter 11	Ş					
	_ number co	mes after 16	ś						
Whic	ch number co	omes just aft	er 13?						
Who	nt number co	me just after	40% _						
Whic	ch number co	omes betwe	en?						
a b	i) 3,, 5 i) 7,, i) 22,, 24	, 10	b) c) f)	4,, 6 9,, _ 39,, 4	, 13 I	3			
g)	which num	ber comes k	etwe	en 7 and 9?	?				
h)	What numb	oer is betwee	en 14 d	and 16?					
Who	ıt number co	mes right be	fore?						
	_, 3	, 7			_, 9		11		
	, 14	, 19			_,22		,24	_,32	
b c	<ul> <li>a)comes just before 10</li> <li>b)comes just before 20</li> <li>c) What number comes just before 12?</li> <li>d) What number comes right before 29?</li> </ul>								
Circl	le the smaller	(less) numb	er						
	4 and 2		7 an	d 5	1 (	and 9	10 and 20		
Und	er line the sm	aller (less) nu	ımber						
12 a	nd 22	14 and 41		6 and 9		13 a	nd 31		
Circl	le the greate	r (bigger) nu	mber						
a)	4, 3, 1		b)	15, 5, 50		c)	7, 5, 9, 10		
d)	8, 2, 12, 16	d)	40, 3	30, 10, 20		e)	21, 11, 31		
Und	erline the gre	atest (bigge	st) nur	mber					
a)	1, 2, 3		b)	11, 6, 5		c)	7, 2, 6		
d)	10, 11, 9, 4		e)	22, 12, 32		d)	40, 30, 20, 10		
f)	50, 10, 20, 3	30							
Arra	nge the num	bers from the	e smal	lest to the k	oigge:	st			
a)	7, 1, 2				c)	5, 9, 3,	1	_	
b)	12, 18, 15				d)	50, 10,	20, 40, 30		

### Number words from 0-20

0 1 2 3 4 5 6 Numb	zero one two three four five six per words from 21 – 35	7 8 9 10 11 12 13	seven eight nine ten eleven twelve thirteen	14 15 16 17 18 19 20	fourteen fifteen sixteen seventeen eighteen nineteen twenty
21	twenty three	26	twenty six	31	thirty one
22		27	twenty seven	32	thirty two
23		28	twenty eight	33	thirty three
24		29	twenty nine	34	thirty four

# write the missing number words

twenty five

22 =		32 Thirty two	
30 =		26 =	27 =
24=		33 =	21 =
	e in figures		
36	thirty six	39	42
43		46	48 forty eight
37		40 forty	49
11		, 17	50 fifty

thirty

### 38 41 forty one forty five 45 47

30

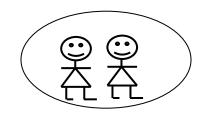
### Sets

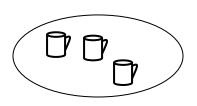
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What is a set? A set is a group of objects Or A set is a collection of objects Objects found in a set are called Members or elements

# Name these sets

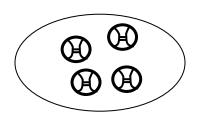






35

thirty five



### Draw these sets

- a) A set of three flowers
- b) A set of six boys
- c) A set of ten oranges

- d) A set of four chairs
- e) A set of seven triangles

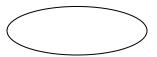
empty sets: what is an empty set?

An empty set is a set without members

Or

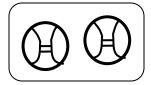
An empty set is a set with no members

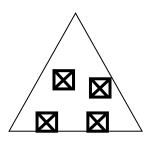
Name this set

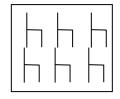


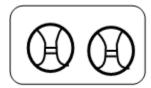
Draw an empty set

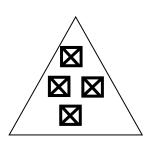
Matching sets with the same number of members

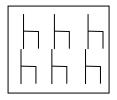


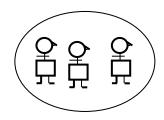


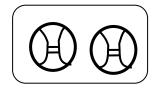




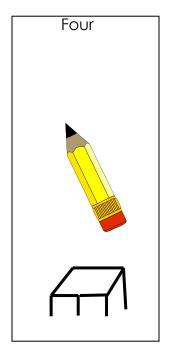


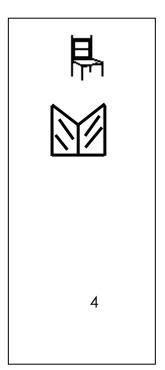




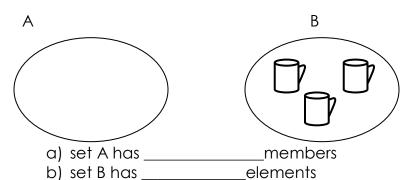


# Match correctly



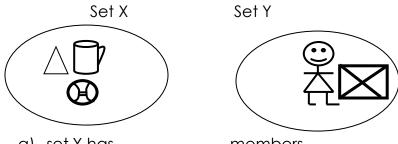


### Comparing



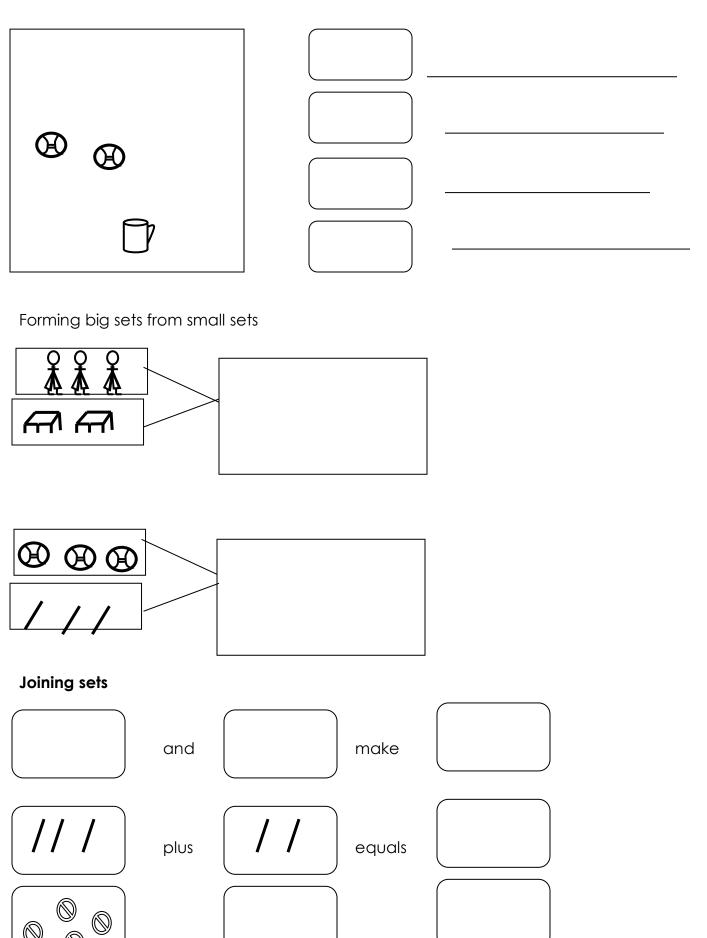
- c) how many members are in both sets?
- NB Teacher to give more similar numbers)

Comparing sets using more or less



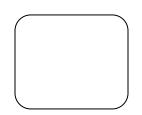
- a) set Y has \_\_\_\_\_members b) Set X ha \_\_\_\_\_memebrs
- c) Which set has more members?
- d) Which set has less members?
- e) How many members are in set Y?
- f) How many members are both sets?

# Forming new sets



4





\_\_\_\_

<del>\_\_\_\_\_</del>

= \_\_\_\_\_

### TOPIC: OPERATION ON WHOLE NUMBERS

Addition of numbers less than 20 (horizontally)

Addition of numbers less than 20 (vertically)

5

6

7

6

+ 7

5

4

5

6

2

5

5

2

6

+ 1

· 7

+ 5

+ 0

1 0

1

1

+ 2

+ 4

2

+ 4

Word statements in addition of numbers

- a) Four plus three equals \_\_\_\_\_
- b) Ten plus four equals \_\_\_\_\_

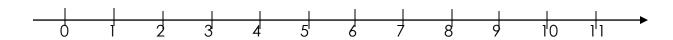
- c) Sarah ate 3 apples
  - Mary ate 7 apples
  - How many apples did they eat altogether?
- d) Juma has 10 books

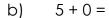
Ali has 5 books

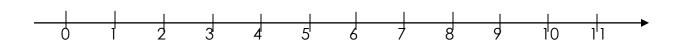
How many books do they have altogether?

Adding numbers using a numberline

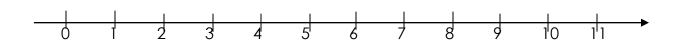
$$a)4 + 2 =$$



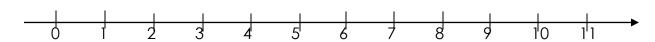




c) 
$$4 + 3 =$$



e) 
$$6 + 2 =$$



Subtraction of numbers less than 20 (horizontally)

a) 
$$6-4=$$

b) 
$$9 - 0 =$$

c) 
$$9-3=$$

d) 
$$14 - 2 =$$

e) 
$$10-4=$$

f) 
$$12 - 6 =$$

g) 
$$7 - 7 =$$

h) 
$$16 - 4 =$$

Subtraction of numbers less than 20 (vertically)

9

7

2

- 6

- 2

- 7

1

	8	1	0	1	5
-	5	-	3	-	5
			_		

Word statements involving subtraction

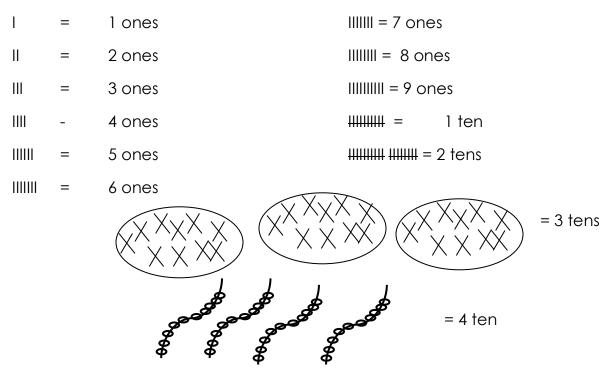
- a) Nine take away three equals \_\_\_\_\_
- b) Ten minus two equals \_\_\_\_\_
- c) Twelve minus three equals \_\_\_\_\_
- d) Daddy had 10 books

  He gave away 6 books

  How many books remained?
- e) Mary had 16 eggs. 9 eggs got broken How many eggs remained?

### **PLAVE VALUES**

Drawing and counting tens and ones



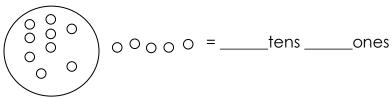
# Counting in tens

$$1 \text{ ten} = 10$$

$$2 \text{ tens} = 20$$

$$3 \text{ tens} = 30$$

# Counting tens and ones (how many tens and ones?)





Fill in the missing tens and ones

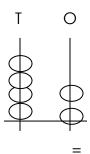
- a) 42 = \_\_\_\_tens \_\_\_ones
- b) 26 = \_\_\_\_\_tens \_\_\_\_ones
- c) 80 = \_\_\_\_tens \_\_\_ones
- d) 7 = \_\_\_\_tens \_\_\_ones
- e) \_\_\_\_tens \_\_\_ones = 34
- f) \_\_\_\_\_tens \_\_\_\_ones = 9
- g) 3 tens 7 ones = \_\_\_\_\_
- h) 2 tens 3 ones = \_\_\_\_\_

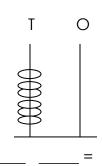
### Draw sticks to show tens and ones

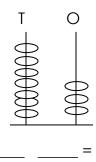
a) 
$$4 =$$

c) 
$$12 =$$

# Which number are shown on the abacus?







0

### Show the number on the abacus



T

52 =

# **Expanding numbers**

# What number has been expanded?

### Addition of tens and ones

T O 1 2 + 3

2 2 + 2

0

Τ

4 3 + 5

0

Τ

T O 3 4 + 2 0

T O T O 5 4 + 3 0 + 2 4

## Word statements in addition of tens and ones

- 1. Mary has 12 eggs. Sarah has 10 eggs. How many eggs do they have altogether?
- 2. Dan has 23 balls. Peter has 20 balls. They both have \_\_\_\_\_balls.
- 3. There are 13 boys and 14 girls in a class. How many pupils are there altogether?

# Subtraction of tens and ones

T O 2 4 - 4

T O
1 6

5

T O

3 2 - 2 5 4

0

4

Τ

2

0

T O 3 2 - 1 2

4 3 2 0

T

# Word statements in subtraction of tens and ones

- 1. Nakato has 24 sweets . She ate 12 of them. How many sweets remained?
- 2. Subtract 10 from 22

- 3. Mummy has 34 eggs. 20 eggs were bad. How many eggs were good?
- 4. Sarah put 32 glasses on the tray. 11 glasses got broken. How many glasses were left?

# TERM II MTC - Lesson notes for primary one

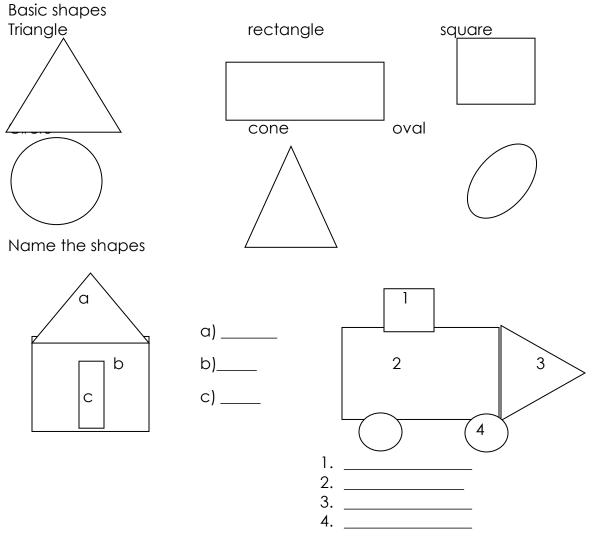
### Topical break down term II

- 1. Geometry
- i) Basic shapes
- j) Naming shapes
- k) Shapes of different objects
- I) Naming different things with a shape of a square eg circle
- 2. Length
  - i) What is length?
  - ii) Parts of the body used to measure length
  - iii) Other things used to measure length
  - iv) Comparing length using long, tall or short
  - v) Adding distance in metres (vertically and horizontally)
  - vi) Word statements involving addition of metres
  - vii) Subtraction of metres (horizontally and vertically
  - viii) Word statements in involving subtraction of metres
  - ix) Picture interpretation about distance
- 3. Numeration system
- i) Ordinal numbers
- ii) Numbers 50 100
- iii) Writing numbers and number names 50 (fifty 100)
- iv) Matching numbers to their number names
- v) Missing addends
- vi) Grouping objects in twos
- vii) Multiplying numbers by two (horizontally and vertically)
- viii) Word statements involving multiplication of numbers by 2
- ix) Dividing by 2
- x) Word statement involving division of numbers by 2
- 4. Fractions
- i) What is a fraction
- ii) Making and shading wholes
- iii) Making and shading halves
- iv) Making and shading quarters
- v) Making and shading other fractions
- vi) Addition of fractions
- vii) Subtraction of fractions
- ∨iii)
- 5. Measures
- i) Telling times on the clock face
- ii) Showing the given time on the clock face
- iii) Addition of time in full hours (horizontally and vertically)

- iv) Subtraction of time in full hours (horizontally and vertically)
- v) Days of the week
- vi) Months of the year
- 6. Graph
  - i) Picture graph
  - ii) Block graph
- 7. Subtraction of numbers using a numberline
- 8. Revision of the covered work

### Lesson notes for primary one term II

Topic: geometry



Shapes of different objects

Name different objects with a shape of a triangle

- a) A sacket of milk
- b) A roof top of a hut
- c) A samosa

Name different objects with a shape of a rectangle

- a) A door
- b) A chalkboard

Name	different	thinas	with	a shar	ne of	a sa	uare
Name	different	11 111 193	4 4 1 1 1 I	a sila		$\alpha$ $\alpha$	oaic

a) Top of the chair

b) Wire mesh

Name different things with a shape of a circle

- a) A ball
- b) A water melon
- c) A clock face
- d) An orange

**TOPIC: LENGTH** 

Definition

Length is the distance between two points

Parts of the body used to measure length

Hands Hand span Arms

Fingers Feet

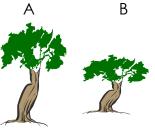
Other things we use to measure length

Ropes Sticks Threads

Strings Banan fibres

Comparing length of different objects

Use long, tall or short



Tree A is \_\_\_\_\_

Tree B is \_\_\_\_\_



Stick y is \_\_\_

Stick Z is \_\_\_\_\_

Compare using longer, taller or shorter

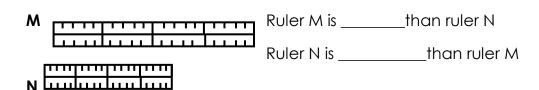


Tendo

Ann is \_\_\_\_\_than Tendo

Tendo is \_\_\_\_\_than Ann.





Adding metres (horizontally)

- a) 2 metres + 3 metres = \_\_\_\_metres
- b) 7 metres + 4 metres = \_\_\_\_\_metres
- c) 13 metres + 6 metres = \_\_\_\_\_metres
- d) 9 metres + 1 meter = \_\_\_\_\_metres

Adding metres vertically

Word statements involving addition of metres

a) Joy moves 3 metres. Sarah moved 4 metres.

They both moved \_\_\_\_\_metres

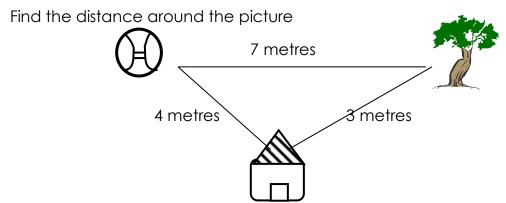
- b) Bursar had 12 metres of a black cloth and 4 metres of a yellow cloth. How many metres of cloth had the bursar?
- c) Tom walked 10 metres and ran 5 metres. How many metres did he move altogether?

Subtraction of metres

- a) 7 metres 4 metres = \_\_\_\_\_metrers
- b) 9 metres 2 meters = \_\_\_\_\_metres
- c)  $20 \text{ m} 10 \text{ m} = \underline{\hspace{1cm}} \text{m}$
- d)  $13 \text{ m} 7 \text{ m} = \underline{\qquad} \text{m}$
- e) 6 metres 1 9 metres 1 6metres

Word statements for subtraction of metres

- a) Tom has 6 metres of a red cloth. He sold 2 metres to his mother. How many metres did he remain with?
- b) ten metres minus six metres equals \_\_\_\_\_metres
- c) Joan had a sugarcane of 12 metres . She ate a piece of 5 metres. How many metres of a sugarcane did she remain with?



- a) What is the distance from the ball to the tree?
- b) How far is it from the hut to the ball?
- c) What is the shortest distance?
- d) What is the longest distance?
- e) What is the distance between the tree and the hut?
- f) Find the total distance around the pictures

#### **TOPIC: ORDINAL NUMBERS**

Ordinal numbers are numbers which tell us places of position and dates correctly

Number	Word
1 st	First
2 <sup>nd</sup>	Second
3 <sup>rd</sup>	Third
4 <sup>th</sup>	Forth
5 <sup>th</sup>	Fifth
6 <sup>th</sup>	Sixth
7 <sup>th</sup>	Seventh
8 <sup>th</sup>	Eighth
9 <sup>th</sup>	Ninth
10 <sup>th</sup>	Tenth
]]th	Eleventh
12 <sup>th</sup>	Twelfth
13 <sup>th</sup>	Thirteenth
14 <sup>th</sup>	Fourteenth

15 <sup>th</sup>	Fifteenth
16 <sup>th</sup>	Sixteenth
17 <sup>th</sup>	Seventeenth
18 <sup>th</sup>	Eighteenth
19 <sup>th</sup>	Nineteenth
20 <sup>th</sup>	Twentieth

# Activity

1.	Fill in	the	missing	numbers
----	---------	-----	---------	---------

 $1^{\text{st}}$  ,  $2^{\text{nd}}$  \_\_\_\_\_,  $4^{\text{th}}$  ,  $5^{\text{th}}$  , \_\_\_\_\_, \_\_\_,  $8^{\text{th}}$ 

2. Write in numbers

Ninth \_\_\_\_\_

Fifteenth \_\_\_\_\_

Second \_\_\_\_\_

### **TOPIC: NUMERATION SYSTEM**

### Numbers 50 - 100

50, 51, 52,

53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100

Writing numbers and their number names

50	fifty	57		64		71	
51	fifty one	58		65		72	
52	fifty two	59		66		80	eighty
53		60	sixty	67		90	ninety
54		61	sixty one	68	sixty eight	100	one
55		62		69	sixty nine	hund	rea
56	fifty six	63	sixty three	70	seventy		

# Activity

Match numbers to their number names

76 ninety one

50 one hundred

91 seventy six

100 fifty

### Missing addends

Find the missing numbers

### Example 1

Teacher will give examples in groups and individually then give an activity

## Example 2

Note: Draw balls for the bigger number and cross balls for the smaller number

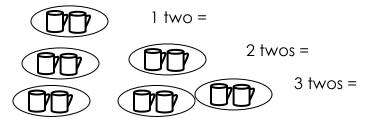
Teacher will help pupils with more examples then give an activity

# Example 3

**Note:** Draw balls for the bigger number and cross for the small number, the remaining balls are the answer.

# Grouping in twos

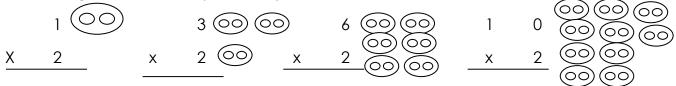
Grouping objects in twos



Multiplying numbers by 2 (horizontally)

And more of this work up to 12

Multiplying numbers by 2 (vertically)



And more of this work to be given to pupils Word problems with multiplication of numbers by 2

a) Juma has 2 eyes. How many eyes have 4 boys?

$$4 \times 2 = 8$$

One girl has 2 ears. How many ears do 3 girls have?

$$3 \quad \times \quad 2 \quad = \quad 6$$

A hen has 2 legs. How many legs do 6 hens have?

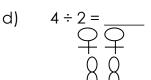
Put 2 eggs on each plate. How many eggs are on 5 plates?

$$5 \times 2 = 10$$

Dividing numbers by 2

a) 
$$2 \div 2 = 1$$
 b)  $8 \div 2 = 4$   $?$ 

c) 
$$10 \div 2 = 5$$





Teacher will give more numbers

Word problem involving division of numbers by 2

Share 6 mangoes between 2 girls. How many does each get?

$$6 \div 2 = 3$$
 mangoes

b) ten divided by 2 equals

$$10 \div 2 = 5$$

- c) Share 16 sweets equally between 2 boys
- d) Daddy had 8 bananas. He shared them between 2 children. How many bananas did each child get?

$$8 \div 2 = 4$$

Teacher will give more examples, then an activity

### **ACCIDETNS AND SAFETY**

# **FRACTIONS**

What is a fraction?

A fraction is part of a whole

New words

Whole Half

Shade

Fraction

Quarter

Same fractions



A whole apple

A whole orange

A whole banana



One of the two equal parts cut is called a half.

Teacher will help pupils cut different fractions from different whole and name them. (practically)

Note: The parts cut must be of the same size.

Name the shaded fraction (work will be prepared and pasted in pupils' books)

Making and shading wholes

A whole triangle

A whole circle

A whole pawpaw

Making and shading halves







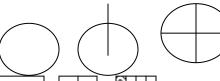


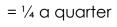
Making and shading quarters

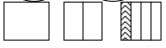












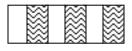
= ¼ a quarter

Making and shading other fractions









### Addition of fractions

$$\underline{2}$$
 +  $\underline{1}$  =  $\underline{3}$  Note: Add numbers on top only and choose 5 5 one number from those down.

$$\frac{4}{8}$$
 +  $\frac{2}{8}$  =  $\frac{4+2}{8}$  =  $\frac{6}{8}$ 

More work will be given to pupils following the above examples

### Subtraction of fractions

$$\frac{3}{4}$$
 -  $\frac{2}{4}$  =  $\frac{3-2}{4}$  =  $\frac{1}{4}$  note: Subtract numbers up, then 4 choose one number from down

 $\frac{7}{8}$  -  $\frac{5}{8}$  =  $\frac{4}{10}$  -  $\frac{2}{10}$  =  $\frac{2}{10}$  =  $\frac{5}{7}$  -  $\frac{1}{7}$  =

Teacher will give more work following the above examples

### **TOPIC: MEASURES**

### **TIME**

# Telling time on a clock face

A clock face has 2 or more hands on it

A short hand is the hour hand

A long hand is the minute hand

They both move around the clock but one moves faster than the other

When the long hand move and point straight in 12, the time will be that number the short one is pointing to.

# Example

It is 4 o'clock



More work on telling time Work will be done and pasted in their books Showing time on a clock face.







More work to be done on papers and pasted in their books

Adding time in full hours

5 hours + 3 hours = \_\_\_\_\_hours

8 hours + 2 hours = \_\_\_\_\_hours

2 hours + 4 hours = \_\_\_\_\_hours

3 hours + 4 hours

6 hours + 7 hours 7 hours 5 hours

Subtraction of time in full hours

9 hours – 4 hours = \_\_\_\_\_hours

8 hours – 3 hours = \_\_\_\_\_hours

12 hours – 8 hours = \_\_\_\_\_hours

9hours - 6 hours 10 hours 8 hours

12 hours 4 hours

## Days of the week

We have seven days in a week.

All days of the week have names beginning with capital letter

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

Saturday is the seventh day of the week

Fill in the missing days of the week

- a) Sunday, Monday, \_\_\_\_\_, \_\_\_\_, Friday
- b) Thursday, Wednesday, \_\_\_\_\_, \_\_\_\_, \_\_\_\_,
- c) When do Christians go for prayers?
- d) Moslems pray on \_\_\_\_\_
- e) The seventh day Adventists pray on \_\_\_\_\_

f) On \_\_\_\_\_Christians go for prayers.

Note: 60 minutes = 1 hour

24 hours = one day

7 days = 1 week

2 weeks = fortnight

4 weeks = 1 month

12 months = one year

### Months of the year

There are twelve months of the year

January 1st February 2nd March 3rd April 4th May 5th

June 6<sup>th</sup>

July 7<sup>th</sup> August 8<sup>th</sup>

September 9<sup>th</sup>

October 10<sup>th</sup>

November 11<sup>th</sup> December 12<sup>th</sup>

### Activity

a) How many months make a year?

b) Fill in the missing letters

Jan\_\_\_ary Feb\_\_u\_ry J\_\_ne A\_\_\_ust

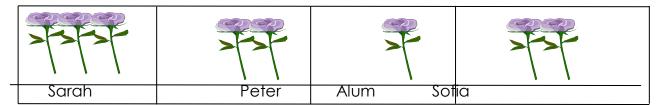
c) Fill in the missing months of the year

January , February , \_\_\_\_\_, \_\_\_\_May

August, September, \_\_\_\_\_, \_\_\_\_, December

### GRAPHS Graph 1

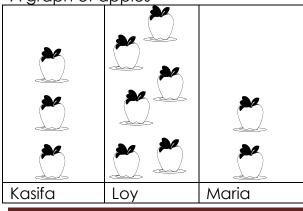
Teacher will help pupils get the ideas of graph from real objects



- 1. Who has more flowers
- 2. Who has fewer flowers?
- 3. How many flowers has Alum?
- 4. Who has three flowers?
- 5. How many flowers do they have altogether?

### Graph 2

A graph of apples



### **Questions**

- 1. How many apples does Loy have?
- 2. Who has three apples?
- 3. How many apples do they have altogether?
- 4. Who has most apples?
- 5. Who has the least number of apples?

### Graph 3

A farmer planted trees on different days

A fairtier plattied frees of aliferent days							
Monday							
Tuesday							
Wednesday							

### Questions

- 1. How many trees were planted on Tuesday?
- 2. On which day did he plant the least number of trees?
- 3. How many trees did he plant on Monday?
- 4. How many trees did he plant altogether?

# Study the graph and answer the questions that follow

Five children have boxes

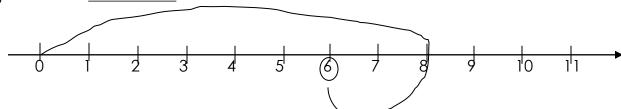
Tive children have boxes							
Tom	Tonny	Tina	Tasha	Trinity			

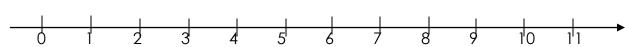
### **Questions**

- a) How many boxes does Tonny have?
- b) Who have the same number of boxes?
- c) How many boxes has Trinity?
- d) How many boxes do they have altogether?

Use a number line to get the answer

a)





# **TOPICAL BREAKDOWN FOR TERM III**

#### **MEASUREMENTS**

- 1. Weight (mass)
- i) What is weight?
- ii) Things we use to weigh
- iii) Comparing weight
- iv) Addition of weight vertically and horizontally
- v) Word statements involving addition
- vi) Subtraction of weights vertically and horizontally
- vii) Word statements involving subtraction
- 2. Capacity
  - i) What is capacity
  - ii) Examples of liquids
  - iii) Objects/containers we use to measure liquids
  - iv) Comparing capacity
  - v) Measuring using non standard units
  - vi) The standard unit for capacity
  - vii) Addition in litres
  - viii) Word statements (addition)
  - ix) Subtraction in litres
  - x) Work statements (subtraction)
  - xi) Mixed exercises of addition and subtraction
- 3. Addition with re-grouping
  - i) Add two digit numbers with re-grouping
  - ii) Word statements (addition)
- 4. Money
- i) What is money?
- ii) History of money
- iii) Uganda currency
- iv) Features on money
- v) Comparing money
- vi) Addition of money
- vii) Word statements
- viii) Subtraction of money
- ix) Word statements
- 5. Shopping
- 6. Mathematical statements on addition
  - i) Subtraction
  - ii) Multiplication
  - iii) Division
  - iv) Number families
  - v) Multiplication by 3
  - vi) Division by 3
  - vii) Multiplication by 3
  - viii) Division by 3

#### LESSON NOTES FOR PRIMARY ONE TERM III

### **Topic: Measures**

### Weight (mass)

- 1. What is weight?
  - a) Weight is how heavy or light something is
  - b) We can tell how heavy or light something is after weighing it
- 2. We can weigh some objects using non standard tools eg. Tins, baskets, pots etc
- 3. We measure mass (weight) in kilograms (kg) and grams (g)
- 4. Examples of things we weigh
  - Sugar
  - Peas
  - Salt
  - Meat
  - Millet

- Maize flour
- Bread
- Beans
- Rice
- Cassava flour

### Comparing weight using heavy or light

- a) A stone is \_\_\_\_\_
- b) A paper is \_\_\_\_\_
- c) A table is \_\_\_\_\_
- d) A feather is \_\_\_\_\_
- e) A brick is \_\_\_\_\_
- f) A pen is \_\_\_\_\_

### Comparing weight using heavier than or lighter than

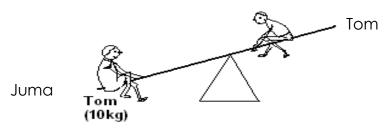


b) A cup is \_\_\_\_\_\_a table.



pencil stone

- a) A pencil is \_\_\_\_\_a stone
- b) A stone is \_\_\_\_\_a pencil.



- a) Juma is \_\_\_\_\_Tom
- b) Tom is \_\_\_\_\_Juma

# Addition of mass in kilograms

a) 
$$1 \text{ kg} + 3 \text{ kg} =$$

b) 
$$9kg + 2kg =$$

c) 
$$7kg + 2kg + 4kg$$

d) 
$$8kg + 0kg + 5kg =$$

# Word statements involving addition of mass

Aunt bought 3kg of sugar. Uncle bought 5kg of sugar

How many kilograms did they buy altogether?

Joan had 7kg of salt. Dan had 9kg of salt. How many kilograms did they have altogether? Add 12kg plus 10kg.

# Subtraction of mass in kilograms

$$10kg - 4kg = ___kg$$

b) 
$$12kg - 9kg = __kg$$

$$7kg - 2kg = \underline{\hspace{1cm}} kg$$

d) 
$$14kg - 7kg = ___kg$$

# **Word statements**

- a) Subtract 9kg 5kg
- b) Daddy bought 14kg of meat. We ate 6kg. How many kilograms remained?
- c) There were 34kg of rice in the basket. Mummy cooked 20kg. How many kilograms remained?

# Capacity

What is capacity?

Capacity is the amount of liquid a container can hold.

### Examples of liquids

a) Water

d) Paraffin

g) Diesel

b) Milk

e) Tea

h) Glue

c) Juice

f) Petrol

i) Cooking oil

### Container used to measure liquids

a) Bottles

d) Basins

g) Tins

b) Jugs

e) Cups

h) Gourd

c) Jerrycans

f) Glasses

i) Bucket

### Comparing capacity using less or more

### Bottle



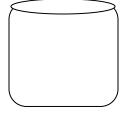
tin



- a) Which object carries more water?
- b) Which object carries less water?

Drum







- a) Which container holds more water?
- b) Which container holds less water?

Reference MK 1 page 102

### Measuring using standard units

We measure liquids in litres (1) other measure are milliliters (ml)i.e medicine, water, soda, juice

Practical measuring of water in different quantities

- a) A plastic mug holds ½ of water
- b) A small plastic bottle holds ½ litre of water
- c) A bottle of beer contains ½ litres of beer

# Activity

- a) How many mugs of water can fill five litre bottles?
- b) How many mugs of water can fill a one litre bottle?

# Reference MK nk 2 page 150

Addina i	in litres	(vertically an	d horizontal	l٧l

a) 1 litre + 2 litres = 3 litres

2 5 litres

3 3 litres

+ 2 3litres

+ 5 0 litres

\_\_\_\_\_

Ref: MK bk 2 page 151

### Word problems involving addition of litres

a) Juma had 2 litres of milk. He added 4 litres of water in milk. How many litres did he get altogether?

b) Tom had 8 litres of water. He bought more 2 litres of water. How many litres did he buy altogether?

c) Grace has 7 litres of soda. Akello has 5 litres of soda. How many litres do they have altogether?

Subtracting litres horizontally and vertically

f) 4 8 litres g) 3 7 litres - 2 6 litres -2 0 litres

Word problems involving subtraction of litres

a) Mummy had 8 litres of milk. She sold 2 litres. How many litres did she remain with?

b) Sarah had 16 litres of oil. She used 7 litres to fry pancakes. How many litres remained?

Mixed exercises on addition and subtraction of litres

c) 10 litres - 5 litres = \_\_\_\_\_litres

# Addition with regrouping (carrying)

### **Exercise**

# Adding two digit numbers to two digit numbers with regrouping

# **Exercise**

### Exercise

# TOPIC: MONEY

**Money:** This is what we use to buy what we want.

# Discuss the use of money

# History of money

Long ago, people used to exchange goods for goods and services for services (barter trade). Later, they introduced cowrie shells.

When the Indians came, they introduced rupees. The rupees also got expired and now we have the present currency called shillings.

# **Currency used by different countries**

Uganda – shillings Kenya – shillings England – pounds America - Dollars Rwanda - Farang Nigeria - Naira

There are two forms of money used in Uganda

### These are

- 1. Coins
- 2. Notes (paper money)

Coins

50shillings coin

100 shillings coin

200 shillings coin

500 shillings coin

1000 shillings coin

### Notes:

1000 shillings note

2000 shillings note

5000 shillings note

10,000 shillings note

20,000 shillings note

50,000 shillings note

# Features on money

- a) A coin of 50 shillings has a head of a cob and the coat of arms
- a coin of 100 shillings a cow and a coat of arms
- a coin of 200 shillings a fish
- a coin of 500 shillings a head of a crested crane
- a coin of 1000 shillings a crested crane

# Changing money/ comparing different money denominations

Shs. 100 = shs 50 + shs. 50

Shs. 200 = shs. \_\_\_\_ + shs \_\_\_ + shs. \_\_\_ + shs. \_\_\_\_

- a) Shs. 300 = shs. \_\_\_\_ + shs. \_\_\_ + shs. \_\_\_\_
- b) How many coins of 100 make shs. 200?
- c) How many coins of 100 make shs. 500?

# Addition of money vertically and horizontally

a) i) Shs. 100 + Shs. 100 = Shs 200 ii) Shs. 100 + Shs. 100 = \_\_\_\_\_

b) i) shs. 50 ii) shs. 150 + shs 50 + shs. 50

- a) Jane had shs. 200. Peter had shs. 300. How much money do they have altogether?
- b) There are shs. 400 in the tin and shs. 200 in the box. How much money is there altogether?
- c) Tom picked shs. 500 on the way to school. john picked shs. 300. How much money do they have altogether?

# <u>Subtraction of m</u>oney

Ref: Mk Bk 2 page 127

Oxford Primary MTC Bk 2 page 58

# Word problems involving subtraction of money

You have shs. 500. You spent Shs. 200. How much is left? a)

You have Shs. 200. You have spent shs. 100. How much is left? b)

Eva had shs. 300. She lost shs. 100. How much money did she remain with? c)

Susan had shs. 700. She bought a ruler at shs. 300. How much money did she remain d) with?

Lesson An apple

# **SHOPPING**



Shs. 500

an egg shs. 200

an orange shs. 150

a cup shs. 300

- What is the cost of an egg? a)
- b) Which item costs shs. 300?
- A \_\_\_\_\_costs shs. 500. C)
- What is the cost of an egg and a cup? d)

e) Study the price list and answer the questions

<u>Item</u> <u>Price</u>

Pencil shs. 50 each

Sweet shs. 50 each

Book shs.100 each

Matchbox shs. 50 each

Ice cream shs. 500 each

### **Questions**

- a) How much is a pencil?
- b) What is the cost of a sweet?
- c) How much is a tin of ice cream?
- d) How much will one pay for two match boxes?
- e) What is the cheapest item?
- f) A \_\_\_\_\_is the most expensive item .

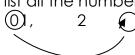
# TOPIC: NUMBER FAMILIES

Number families of

- 2, 3,
- 4,
- 5,
- 6, 7,
- 8,
- 9, 10

# Which two numbers add up to 2

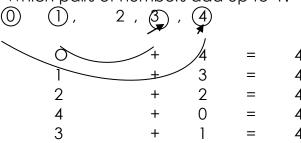
First list all the numbers from 0 up to 2



Choose the first and the last numbers

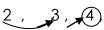
$$O + 2 = 2$$
 $1 + 1 = 2$ 
 $2 + 0 = 2$ 

Which pairs of numbers add up to 4?



Which pairs of numbers add up to 4?







0 5 5 1 2 5 5 3 5 5

Up to 1

#### TOPIC: **MULTIPLICATION BY 3**

Grouping in threes.



1 group of three =





2 groups of three =



3 threes

Up to 12

# Multiplying numbers by 3 [horizontally]

Example

And more of this work up to 12

# Multiplying numbers by 3 [ vertically ]

1

3 <u>x3</u>

Χ

<u>x\_</u>3

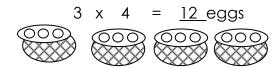
# More of this work to be given to pupils

Word problems with multiplication by 3

A stool has 3 legs. How many legs. How many legs do 2 stools have?

b) There are 3 eggs in a tray

How many eggs are there in 4 trays?



# TOPIC: DIVISION OF NUMBERS BY 3

## **Dividing numbers by 3 [ horrizontally**]

# Divion numbers by 3 [vertically ]

Teacher will give more examples and then aPaQtiAy

# Word problems involving division of numbers by 3

a) Mummy had 6 pananas. She shared them equally among 3 children. How many bananas did each get?

- b) Nine divide by three equals \_\_\_\_\_
- c) Share (2) pencils equally among (3) boys

000

d)	What	t do we get when we share 3 apples equally among 3 girls?   3 = apple
		999
TOP	IC:	MATHEMATICAL STATEMENTS
Mat	hema	tical statements on addition
Wor	ds use	ed in addition
	a) b)	- Add - Total - Altogether - Plus - And - Put together - Both - More - Sum Two plus five equals What is the sum of three, two and four?
	c)	Jane has four apples. John has three apples How many apples do they have altogether?
	d)	Find the total of five and six oranges
	e)	What is six and four?
	f)	Tom had six books. Teo had five books.  Both had books altogether.
	g)	Daddy had 2 sweets. Mummy gave him more 7 sweets. How many sweets did daddy have altogether?
		ematical statements on subtraction Is used in subtraction - Subtraction - Minus - Take away - Remain - Less - Remove
	a)	Subtract 4 mangoes from 11 mangoes
	b)	What is 8 take away zero
	c)	Twelve minus six equals
	ď)	What is four less two?
	e)	A hen had 8 eggs. Five eggs were broken. How many eggs
		Pomovo 4 pops from 10 pops. How many pops romain?
	f)	Remove 4 pens from 10 pens. How many pens remain?

Mathematical statements on the multiplication

Page 40

Words used in multiplication

- Multiplication
- groups of
- times

Note: teacher will give examples using words above.

Mathematical statements on division

Words used in division

Share

Divide

Among

Equally

Between

Give

Note: Teacher will give examples using words above.