

## MATHEMATICS PUPIL'S

$$
\begin{gathered}
\text { BOOK } 2 \\
\text { FOR LEARNERS WITH } \\
\text { PHYSICAL IMPAIRMENT }
\end{gathered}
$$

## MINISTRY OF EDUCATION

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## Foreword

The focus of education in any country is the provision of quality and inclusive education and training to all its citizens. The Government of Kenya is committed to this goal as one of the Sustainable Development Goals (SDGs), a contributor to other core SDGs and a right for all, irrespective of their physical status, according to the 2010 Constitution of Kenya. Quality education is paramount to any country in the development and building of a just and cohesive society that enjoys inclusive and equitable social development. In an effort to realise national aspirations of education as envisioned in all policy documents, the Government has provided a policy framework to offer direction in modernising and re-branding the country's education and training system including that of learners with special needs. These documents include Vision 2030, the National Education Sector Strategic Plan 2018-2022 (NESSP) and Sessional Paper No. 1 of 2019.

It is the focus of the Government to ensure maintenance and improvement of inclusive, equitable and quality education to avoid persistent regional disparities in the learning outcomes, as well as access to education based on gender, diverse needs, location and region. The basis of the ongoing education reform is to make education in Kenya competitive internationally and socio-economically viable. The Government is ensuring that education strives to stimulate innovation and enhance the acquisition of 21 st Century skills through the provision and adaptation of content for learners with special needs.

The Ministry of Education, in partnership with Global Partnership for Education and other development partners, has invested heavily in the provision of educational materials, infrastructure, and human resources in order to enhance the quality of education delivered in Kenyan schools. Evidence-based interventions and global best practices have been adopted in teaching numeracy in early grades.

This adapted mathematics pupil's book for learners with special needs and disability is based on the Competency Based Curriculum and is approved by the Kenya Institute of Curriculum Development for use in schools. It will no doubt inform and guide the teaching and learning of mathematics in early grades. The design of the book ensures that all Kenyan learners with special needs and disability can perform arithmetic operations accurately and efficiently.


Prof. George A. O. Magoha, EGH, Cabinet Secretary, Ministry of Education

## Preface

The goal of the Ministry of Education is to provide quality and inclusive education to all learners irrespective of their socio-economic and physical status. Over time, reforms have been undertaken to improve the education sector with a view to making it globally competitive. The Competency Based Curriculum that has been rolled out emphasises nurturing every learner's potential to ensure they are engaged, empowered and ethical. Its focus is on the provision of quality inclusive education and relevance.

Research initiatives such as National Assessment Monitoring Learning Achievement (NASMLA) and Southern and Eastern Africa Consortium for Monitoring Education Quality (SACMEQ) indicate the need for improved achievement in literacy and numeracy competencies among learners with special needs. Recent developments in the education reform process emphasize the role of literacy and numeracy competencies in supporting learning, especially in the foundational early grades. The increasing focus on the quality of education has resulted in interventions that have shown a positive impact on literacy and numeracy outcomes.

The Ministry of Education has had an increasing focus on the quality of education in lower primary, particularly in the areas of literacy and numeracy. The Early Grade Mathematics component of the Kenya GPE's Primary Education Development (PRIEDE) Project is a scale-up of the Primary Mathematics and Reading (PRIMR), which was supported by USAID and DFID.

The overarching goal of Early Grade Mathematics is to improve early grade mathematics competency among learners. The programme aims at improving teacher capacity for effective delivery of classroom instruction, improving access to appropriate mathematics textbooks, teachers guides, and enhancing instructional support and supervision of teachers by Curriculum Support Officers and head teachers.

This adapted pupil's textbook for learners with special needs and disability is based on the Competence-Based Curriculum and approved by Kenya Institute of Curriculum (KICD) for use in the teaching of Mathematics in Early Grades. This book aims at helping pupils with special needs and disability to learn a variety of mathematical skills and concepts.


## Acknowledgements

This adapted pupil's book for learners with special needs and disabilities has been adapted as a result of the generous financial support from the Global Partners in Education (GPE). The book was initially developed based on the 8-4-4 curriculum after a successful USAID/Kenya and DFID/Kenya funded pilot programme, the Primary Math and Reading Program (PRIMR). The book was reviewed in alignment with the Competency Based Curriculum and is approved by the Kenya Institute of Curriculum Development.

The Principal Secretary, State Department of Early Learning and Basic Education, Ministry of Education, Dr Belio Kipsang, and Dr Julius Jwan, were instrumental in tirelessly directing the technical efforts of the relevant directorates at MoE, the Kenya National Examinations Council (KNEC), Kenya Education Management Institute (KEMI), Kenya Institute of Special Education (KISE) and the Teacher's Service Commission (TSC).

In a special way, we thank the Global Partnerships for Education (GPE) for funding the implementation of the PRIEDE Project, and World Bank for effective supervision. We also express our deepest appreciation to Ruth Charo, the Task Team Leader (World Bank), who provided invaluable guidance and support in the adaptation process of this book.

Special recognition to MoE Director General Elyas Abdi, PRIEDE Project National Coordinator Martha Ekirapa, and KICD Senior Deputy Director Jacqueline Onyango for their outstanding support to the team during the process of the adaptation of this book. Further, we acknowledge the role of the PRIEDE Project Component 1 Lead, Hellen Boruett, PRIEDE staff Juma Munyiri and Mr Joshua Kilundo for effective coordination of the whole process, and the crucial role of the relevant MoE Directorates: the Directorate of Quality Assurance and Standards, the Directorate of Primary Education, the Directorate of Special Needs Education, the Directorate of Field and other Services, CEMASTEA, KNEC, and KICD, and the TSC for providing all the required technical support

More fundamentally, we wish to also recognise members of the multi- sectoral members of KICD Mathematics Panel and Early Grade Mathematics Technical Team for their invaluable commitment, support, immense individual contribution and sacrifice towards the completion of the adaptation of the content of this book.

|  | NAME | INSTITUTION |
| :--- | :--- | :--- |
|  | Joshua M. Kilundo | KICD |
|  | Hellen Boruett | MOE |
|  | Juma Munyiri | MOE |
|  | Elmad Songe Odero | KICD |


|  | NAME | INSTITUTION |
| :--- | :--- | :--- |
|  | Celine Mutisya | KIB |
|  | Owen Orinda | MOE |
|  | Beatrice Achieng | TSC (Thika School for the Blind) |
|  | Richard Rukwaro | KISE |
|  | Philip Ochieng | TSC Ngeny School for the Deaf |
|  | Winfred Wanja Waigera | Tumutumu Special School |
|  | Japheth Imbeywa | CSO-SNE |
|  | Grace Rasugu | KICD |
|  | Virginia W. Thiongo | Mathare Training Centre |
|  | Mathew Ouko | St. Martin Depores Nyabondo |
|  | Onesmus Kakungi | KICD |
|  | Arthur Musambai | KICD |
|  | Samson Oyombi | KISE |



Elyas Abdi, OGW
Director General
Ministry of Education
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## TERM I

TERM I

## NUMBERS

NUMBER CONCEPT

## Reading numbers

## Activity

Read or point or sign the numbers.


## Work to do

Read or point or sign the numbers.
(I)
(3)

(5)
(20) (8)
(10)
(19)

(II)

TERM I

## Reading numbers

## Activity <br> Read or point or sign the numbers.



Work to do
Read or point or sign the numbers.


TERM I

## Week I Lesson 3

## Numbers and objects

## Activity <br> How many?

| Number | Objects |
| :---: | :---: |
| 1 | $\frac{\lambda}{a}$ |
| 3 | $P F P F P$ |
| 7 |  |
| 10 |  |
| 14 |  |
| 17 |  |
| 20 |  |

Work to do
How many?


TERM I

Numbers using objects

## Activity

How many?

| Number | Objects |
| :---: | :---: |
| 23 |  |
| 27 | 20 |
| 40 |  |
| 49 |  <br>  <br>  |
| 50 | (e) ele el (1) el ele el (1) elelel (1) (1) |

Work to do
How many?

|  | Number | Objects |
| :---: | :---: | :---: |
| $a$ | 25 |  |
| b |  | SD OL O OL ST OL |
| C |  |  |
| d |  |  |
| e |  |  <br> 000000000000000 <br>  <br> - |

## Activity

Count or point or sign numbers forward by 2 from 1 to 19.

Count or point or sign numbers backward by 2 from 19 to 1.


Work to do
(1) Count or point or sign numbers forward by 2 from 2 to 20 .
(2) Count or point or sign numbers backward by 2 from 20 to 2 .

TERM I

## Week 2 Lesson I

## Counting

## Activity

Count or point or sign numbers forward by 2 from 2 to 50.

Count or point or sign numbers backward by 2 from 50 to 2.


## Work to do

(1) Count or point or sign numbers forward by 2 from 1 to 49.
(2) Count or point or sign numbers backward by 2 from 49 to 1.

## Week 2 Lesson 2

## Tens and Ones

## Activity

45 can be shown using a place value chart

| Tens | Ones |
| :---: | :---: |
| 4 | 5 |

## 45 is 4 tens and 5 ones

## Work to do

How many tens and ones?
0. 37 is $\quad 3$ tens and ones
(2. 54 is ___ tens and ___ ones
3. 61 is $\qquad$ tens and ones
(4. 78 is $\qquad$ tens and $\qquad$ ones

## Week 2 Lesson 3

## Reading and writing numbers

## Activity

Read or point or sign numbers and write,or stamp or type or mount the numbers in symbols.


## Work to do

Read or point or sign numbers and write or stamp or type or mount the numbers in symbols.


TERM I

## Week 2 Lesson 4

Reading and writing numbers

## Activity

Read or point or sign and write stamp or type or mount the numbers in symbols.


Work to do
Read or point or sign and write or stamp or type or mount the numbers in symbols.


TERM I

## Week 2 Lesson 5

## Numbers in words

## Activity

Read or point or sign and write or stamp or type or mount the numbers in words.

| Number | Word |
| :--- | :--- |
| 3 | three |
| 4 | four |
| 6 | six |
| 8 | eight |
| 10 | ten |

## Work to do

Read or point or sign and write or stamp or type or mount the numbers in words.

| Number | Word |
| :---: | :---: |
| 2 |  |
| 5 |  |
| 7 | seven |
| 9 |  |
| 10 |  |

## Number patterns

## Activity 1

Write or stamp or type or mount the next number.
$12,14,16$,
Are the numbers decreasing or increasing?
By how many?
Count or point or sign numbers forward by 2 to get the next number.
12,14,16, 18

## Activity 2

Write or stamp or type or mount the next number. 19, 17, 15,

Are the numbers increasing or decreasing? By how many?
Count or point or sign numbers backward by 2 to get the next number.
$19,17,15,13$

## Work to do

Write or stamp or type or mount the next number.
©. $7,9,11$, $\qquad$ (2. $17,15,13$, $\qquad$
(3. $4,6,8$, $\qquad$ (4. $10,12,14$,
©. $20,18,16$, $\qquad$
6. $19,17,15$,
$\qquad$

TERM I
Week 3 Lesson 2

## Number patterns

## Activity 1

Write or stamp or type or mount the missing number.
$20,25,30,35,40$,
Are the numbers decreasing or increasing? By how many?
Count or point or sign numbers forward by 5 to get the next number. 20, 25, 30, 35, 40, 45
Activity 2
Write or stamp or type or mount the missing number. 50, 45, 40, 35, 30,
Are the numbers increasing or decreasing?
By how many?
Count or point or sign numbers backward by 5 to get the next number $50,45,40,35,30, \underline{25}$,
Work to do
Write or type or stamp or mount the next number.


## NUMBERS

## FRACTIONS

A half as part of a whole

## Activity

Fold to make a half


A whole


Two equal parts

l out of 2 parts is shaded.
The shaded part is a half of $a$ whole.

Work to do
Make or mount a half using circular paper cut-outs.

## A half as part of a whole

## Activity

Fold to make a half


A whole


Two equal parts

l out of 2 parts is shaded.
The shaded part is a half of a whole.

Work to do
Make or mount a half using rectangular paper cut-outs.

TERM I

## Week 3 Lesson 5

## A Half ( $\frac{1}{2}$ )

## Activity

A half as a symbol


Two equal parts


Two equal parts

lout of the 2 parts is shaded.
lout of the 2 parts is shaded.
This is $\frac{1}{2}$


## Work to do

Write or stamp or mount or type $\frac{1}{2}$ where $a$ half is shaded.


A



D



B


H


C

E


## Making a whole

## Activity

Match by colour to form a whole.


Work to do
Match paper cut-outs by size to form a whole.

## NUMBERS

## ADDITION <br> Week 4 Lesson 2

## Add

## Activity 1

What is $23+5$ ?
Count or point or sign on 5 steps from 23;
24, 25, 26, 27, 28
$23+5=28$

## Activity 2

Work out $23+5=\square$
Write or type or stamp or mount as 23

$$
\begin{array}{r}
+\quad 5 \\
\hline 28
\end{array}
$$

Count or point or sign on 5 steps from 23; $24,25,26,27, \underline{28}$

## Work to do

Add

1. $14+3=\square$
2. $34+5=\square$
3. $7+21=\square$
(4. 11
$+8$

# Week 4 Lesson 3 

## Add

## Activity

What is $52+6$ ?
Count or point or sign on 6 steps from 52;

$52+6=58$

Work to do
Add
(1. $9 \mathrm{l}+3=\square$
2. $2+36=\square$
(3. $62+5=\square$ 4. $4+85=\square$
5. $71+7=\square$

## Add

## Activity

What is $86+3$ ?
Add 6 ones to 3 ones to get 9 ones. Write or stamp or type or mount 9 in ones place.
Bring 8 down in tens place.


$$
86+3=89
$$

Work to do
Add
$\begin{array}{ll}\text { 0. } 54+4=\square & \text { 2. } 63+2=\square\end{array}$
8. $81+7=\square$
(4. 32
$+4$
©. 43
©. 75
$+5$
$+3$

## Add

## Activity

What is $3+2+4$ ?

$$
\begin{aligned}
3+2+4=5+4 & \\
=9 &
\end{aligned}
$$

Work to do
Add
©. $2+1+4$ $\square$ (2. $1+5+2=\square$
3. $5+2+3=\square$
(4. $2+2+3=\square$
©. $6+1+2=\square$
©. $1+3+2=\square$

## Add

## Activity

What is $23+15$ ?

- Add 3 ones to 5 ones to get 8 ones.
- Add 2 tens to 1 tens to get 3 tens.
- Add 8 ones to 3 tens to get 38 .

$$
23+15=38
$$

Work to do
Add
©. $13+16=\square \quad$ (2. $21+28=\square$
3. $24+33=\square$
(4. $27+12=\square$
©. $32+16=\square$
๑. $17+11=\square$

## Week 5 Lesson 2

## Add

## Activity

## Add 34



- Write or type or stamp or mount 7 in ones place.
- Add tens as $3+1$ to get 4 tens.
- Write or type or stamp or 34 $\begin{array}{r}+13 \\ \hline 47 \\ \hline\end{array}$
- Add ones as $4+3$ to get 7 ones. mount 4 in tens place.

Work to do
Add

(2. 32
$+10$
(4. 15 $+32$
©. 14
$+15$
3. 22
$+14$
$\qquad$
©. 25
$+23$

## Week 5 Lesson 3

## Number patterns

## Activity

Work out the missing number.
6, 9, 12, $\qquad$ 18.

There are 3 steps from 6 to 9 .
Then add 3 to a number to get the next number.
$6+3=9$
$9+3=12$
$12+3=15$
$15+3=18$
The missing number is 15 .
$6,9,12, \underline{5}, 18$.
Work to do
Write or stamp or type or mount the missing number.
©. $12,13,14, \ldots, 16,17$.
(2. $3,5,7$,
3. $4,8,12$,
©. 7,10 ,
13, 16
©. $9,11,13,15, \longrightarrow 19$.
©. $3,6,9,12$,

NUMBERS
SUBTRACTION Week 5 Lesson 4
Subtract

## Activity

What is $7-4$ ?
Count or point or sign 4 steps backwards from 7.
$6,5,4,3$
$7-4=3$

Work to do
©. $4-2 \square$
(2. $8-5=\square$
8. 5
$-1 \square$
©. $7-4=\square$
0. $9-3-\square$
©. $9-5=$

## Week 5 Lesson 5

## Subtract

Activity
Subtract
9

- On the number line start at 9 .

$$
\begin{aligned}
& -5 \text { Move } 5 \text { steps backward } \\
& \text { to stop at } 4 .
\end{aligned}
$$



$$
\begin{array}{r}
9 \\
-\quad 5 \\
\hline 4
\end{array}
$$

## Work to do

Subtract
0.
7

- 2

2. 5
$-3$
3. 9
$\begin{array}{r}-4 \\ \hline\end{array}$
$\qquad$
©. 9

| -6 |
| :--- |

$\qquad$
6. Ben had 5 pencils. He gave Peter 2 pencils. How many pencils was Ben left with?

## Subtract

## Activity

What is $13-8$ ?

$$
13-8=\square \quad \text { Steps }
$$

$$
\begin{array}{ll}
13-8=13-\underline{3}-\underline{5} & \begin{array}{l}
\text { - } \\
\text { Break apart } 8 \text { as } 3 \\
\text { and } 5 .
\end{array} \\
13-8=10-5=5 & \begin{array}{l}
\text { Subtract } 3 \text { from } 13 \text { to } \\
\text { get } 10 .
\end{array} \\
13-8=5 & \begin{array}{l}
\text { Subtract } 5 \text { from } 10 \text { to } \\
\text { get } 5 .
\end{array}
\end{array}
$$

Work to do
Subtract
0. $12-6=\square$
(2. $63-8=\square$
8. $35-9=\square$
©. $51-7=\square$
๑. $24-5=\square$
©. $42-5=\square$

## Subtract

## Activity

Subtract 58

$$
-\quad 5
$$

Write or type or stamp or mount as ones and tens

## Steps

- Subtract 5 ones from 8 ones to get 3 ones.
- Write or type or stamp or mount 3 in ones place.
- Bring down 5 in tens place.


## Work to do

Subtract
0. 26

2. 39
$-6$
3. 45

- 2
©. 78
©. 87
$-5$
- 3

6. Fatuma has 18 books. She gives 3 books to her brother. How many books is Fatuma left with?

## Add and subtract

## Activity

What is $9-2$ ?
Write or type or stamp or mount as
$q-2=\square$
$2+\square=9$

## Steps

- Count or point or sign numbers on from 2 up to 9 as $3,4,5,6,7$, 8,9 .
- There are 7 steps.
$2+7=9$
$9-2=7$
- The missing number is 7.

Work to do
Write or stamp or type or mount the missing number.
(1. $6-2=$ $\square$

$$
2+\square=6
$$

2. $8-6=\square$
$6+\square=8$
3. $7-5=\square$

$$
5+\square=7
$$

4. $5-2=\square$
$2+\square=5$
(5.) $9-3=\square$
$3+\square=9$
5. $7-1=\square$
$1+\square=7$

## Subtract

## Activity

Write or stamp or type or mount the missing number in $\square-3=5$

Write or type or mount as $3+5=\square$

$$
3+5=8
$$

- The missing number is 8 .
- Write or stamp or type or mount 8 in the box.
$8-3=5$
$3,5,8$ is a number family.

Work to do
Write or type or mount or stamp the missing number.
0. $\square-4=3$
(2. $\square-7=2$
8.
$\square-1=4$
© 4. $\square$ $-5=1$
©.
$\square-3=5$
©. $\square-2=3$

## Week 6 Lesson 5

## Subtract

## Activity

Write or stamp or type or mount the missing number.

$$
\text { in } 8-\square=6
$$

Write or stamp or type or mount $8-\square=$

$$
8-6=2
$$

- The missing number is 2 .
- Write or stamp or type or mount 2 in
the box $\square-2=6$.
$2,6,8$ is a number family.


## Work to do

Write or stamp or type or mount the missing number.
0. $8-\square=4$
(2. $5-\square=3$
3. $9-\square=3$
©. $7-\square=4$
©. Teacher Ann has 9 rubbers. She gives 4 rubbers to Tom. How many rubbers is she left with?
©. Esther made 7 baskets. She sold 5 baskets. How many baskets was she left with?

## Number patterns

## Activity

Write or stamp or type or mount the missing number in the pattern.
19, 16, 13
There are 3 steps from 19 to 16
Then subtract 3 from a number to get the next number.
$19-3=16$
$16-3=13$
$13-3=10$
The next number is 10
The pattern is $19,16,13,10$.

## Work to do

Write or stamp or type or mount the next number.
©. $16,15,14$,
อ. $9,7,5$,
3. $17,15,13$,
(4. $19,17,15$,
©. $18,16,14$
©. $20,15,10$,

## NUMBERS

MULTIPLICATION

## Repeated addition

## Activity 1

Write or stamp or type or mount as repeated addition.

is
2


## Activity 2

Write or stamp or type or mount as repeated addition.


Work to do
Write or stamp or type or mount the missing number.


## Repeated addition

## Activity 1

Write or stamp or type or mount as addition.


Activity 2


Work to do
Write or stamp or type or mount the missing number.
(1).

is

$=$

(2.

and

3
= $\qquad$

TERM I
(3)

4.

5.


TERM I

## MULTIPLICATION <br> Week 7 Lesson 4

## Repeated addition

## Activity

Write or stamp or type or mount addition



$$
2+2+2+2=8
$$

## Work to do

Write or stamp or type or mount the missing number.
$\qquad$

2. $\underbrace{\triangle \triangle \Delta}_{4}$ and $\triangle \triangle \Delta \square=-$

TERM I



TERM I

## Repeated addition

## Activity 1

Write or stamp or type or mount as addition.


$$
3+3+3+3+3=15
$$

## Work to do

Write or stamp or type or mount the missing number.
(1).

©.


TERM I
B.


2 .

$\ldots+\ldots+\ldots+$

TERM I

## MULTIPLICATION

## Multiplication ' $X$ ' Sign

## Activity 1

Write or stamp or type or mount using the ' $X$ ' sign.


There are 2 groups each with 4 objects.
$4+4$ is the same as $2 \times 4$.

## Activity 2



There are 3 groups each with 2 objects. This is the same as $3 \times 2$.

Work to do
Write or stamp or type or mount the sign ' $X$ ' or the missing number.


TERM I
8.

is the same as 3
© 4.

is the same as $\qquad$
©.

and

is the same as

## Multiplication

## Activity 1

Write or stamp or type or mount as multiplication.


There are 2 groups with 3 objects each.
This is same as $2 \times 3$.
Write or stamp or type or mount $3+3$ as $2 \times 3=6$.
Activity 2

is


There are 3 groups with 2 objects each.
This is same as $3 \times 2$

$$
2+2+2 \text { is } 3 \times 2=6
$$

Work to do
Write or type or mount or stamp as multiplication.
D. $4+4+4=12$
(2.) $5+5=10$
(3. $2+2+2+2=8$
(4. $3+3+3+3=12$
©. $4+4+4+4+4=20$

## Multiplying by 1

## Activity 1

Multiply by 1


This is 1 group with 2 objects.
This is written as $1 \times 2=2$.
Activity 2
Multiply by 1


This is 1 group with 6 objects.
This is written as $1 \times 6=6$.
Work to do
Multiply
0. $1 \times 3=\square$
(2. $1 \times 4=\square$
(3. $\mid \times 5=\square$
(4. $1 \times 6=\square$
©. $1 \times 7=\square$
©. $1 \times 8=\square$
0. $1 \times 9=\square$

## MEASUREMENT

Measuring length

## Activity

What is the length of the teacher's table?


The length of the teacher's table is $\qquad$ pencils.

## Work to do

|  | Measure | Number of pencils |
| :--- | :--- | :--- |
| $\mathbf{( 1 )}$ | Length of the longer side <br> of mathematics <br> textbook |  |
| (2) | Shorter side of teacher's <br> table |  |
| $\mathbf{3}$ | Shorter side of the door |  |
| (4 | Length of the board |  |

## Week 8 Lesson 5

## Measuring length

## Activity

What is the length of the classroom wall ?


The shorter side of the classroom wall is sticks.

Work to do

|  | Measure | Number of <br> sticks |
| :--- | :--- | :--- |
| (1) | Length of chalkboard |  |
| (2) | Longer side of classroom wall |  |
| (3 | Length of classroom window |  |

## MEASUREMENT

## MASS <br> Measuring mass

```
Week 9 Lesson l
```


## Activity

How many textbooks have the same mass as the wooden block?


The mass of the wooden block is $\qquad$ text books.

Work to do

|  | Measure | Number of <br> text books |
| :--- | :--- | :--- |
| (1) | Mass of a stone |  |
| (2 | Mass of a school bag |  |
| (3 | Mass of a packet of sand |  |

TERM I

## Measuring mass

## Activity

How many coins have the same mass as the exercise book?


The mass of the exercise book is $\qquad$ coins.

Work to do

|  | Measure | Number of coins |
| :--- | :--- | :--- |
| $\mathbf{1}$ | The mass of a potato |  |
| 2 | The mass of a rubber |  |
| (3) | The mass of a pencil |  |
| 4 | The mass of a piece of <br> chalk |  |

## MEASUREMENT

## CAPACITY

## Measuring capacity

## Activity

How many cups full of water will fill the basin?


Cup


Basin ____ cups of water fill the basin.

Work to do

|  | How many cups of <br> water will fill? | Number of cups |
| :--- | :--- | :--- |
| $\mathbf{0}$ | A jerrycan |  |
| (2) | A jug |  |
| (3 | A bucket |  |
| © | A sufuria |  |

TERM I
Week 9 Lesson 4
Measuring capacity

## Activity

How many bottles full of water will fill the basin?


Bottle


Basin
___ bottles of water fill the basin.
Work to do

|  | How many bottles of <br> water will fill? | Number of bottles |
| :--- | :--- | :--- |
| ( | A bucket |  |
| (3 | A jug |  |
| 3 | A sufuria |  |
| 4 | A jerrycan |  |

## Measuring capacity

## Activity

How many tins of water will fill the basin?


## tins fill the basin.

Work to do

|  | How many tins of <br> water will fill? | Number of tins |
| :--- | :--- | :--- |
| (1) | A jug |  |
| 2 | A bucket |  |
| 3 | A jerrycan |  |
| 4 | A sufuria |  |

TERM I

## MEASUREMENT

TIME

```
Week 10 Lesson I
```


## Months of the year

## Activity

There are 12 months in one year.
These are

| 1. | January |
| :--- | :--- |
| 2. | February |
| 3. | March |
| 4. | April |
| 5. | May |
| 6. | June |
| 7. | July |
| 8. | August |
| 9. | September |
| 10. | October |
| 11. | November |
| 12. | December |

## Work to do

Read or point or sign and write or stamp or type or mount the months of the year in order.

TERM I

## Months of the year

## Activity

What activity takes place in the month of

| Month | Activity |
| :--- | :--- |
| January? | Opening School |
| June? | Madaraka day |
| April? | Drama festival |
| August? | Music festival |

## Work to do

Fill or stamp or type an activity for each month.

| Month | Activitiy |  |  |
| :--- | :--- | :--- | :--- |
| January |  | Month | Activity |
| February |  | July |  |
| March |  | August |  |
| April |  | September |  |
| May |  | October |  |
| June |  | November |  |

## Days in a month

## Activity

How many days are in each month?

## 2018

| January |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
|  | $\mathbf{1}$ | 2 | 3 | 4 | 5 | 6 |
| $\mathbf{7}$ | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |  |  |  |


| May |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | $\mathbf{S a}$ |
|  |  | 1 | 2 | 3 | 4 | $\mathbf{5}$ |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | $\mathbf{2 6}$ |
| 27 | 28 | 29 | 30 | 31 |  |  |


| September |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
|  |  |  |  |  |  | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 |  |  |  |  |  |  |


| February |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
|  |  |  | 1 | 2 | 3 |  |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 |  |  |  |


| June |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
| $\mathbf{3}$ | $\mathbf{4}$ | 5 | 6 | 7 | 8 | $\mathbf{9}$ |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | $\mathbf{2 3}$ |
| 24 | 25 | 26 | 27 | 28 | 29 | $\mathbf{3 0}$ |


| October |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |  |  |  |


| November |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Tn | Fr |
| $\mathbf{S a}$ |  |  |  |  |  |
|  |  |  | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 |
| 10 |  |  |  |  |  |
| 11 | 12 | 13 | 14 | 15 | 16 |
| 17 |  |  |  |  |  |
| 18 | 19 | 20 | 21 | 22 | 23 |
| 24 |  |  |  |  |  |
| 25 | 26 | 27 | 28 | 29 | 30 |


| April |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
| 1 | $\mathbf{2}$ | 3 | 4 | 5 | 6 | 7 |
| $\mathbf{8}$ | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |  |  |  |  |  |
|  |  |  |  |  |  |  |


| August |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
|  |  |  | 1 | 2 | 3 | 4 |
| $\mathbf{5}$ | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |  |
|  |  |  |  |  |  |  |


| December |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Su | Mo | Tu | We | Th | Fr | Sa |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |  |  |  |  |  |

## Work to do

©. Which months have 28 days?
2. Which months have 30 days?
3. Which months have 31 days?

TERM I

## Measuring time

## Activity <br> How much time? <br> Count or point or sign the number of claps as you sing.

National Anthem
Oh God of all creation
Bless this our land and nation
Justice be our shield and defender
May we dwell in unity
Peace and liberty
Plenty be found within our borders.
It takes ___ claps to sing the first stanza of the national anthem.
The number of claps is the time taken to sing.

## Work to do

Sing or hum or mime or sign the first stanza of the national anthem.

| Count how many? | Number |
| :--- | :--- |
| 1. Claps |  |
| 2. Taps |  |
| 3. Thumb clicks |  |

## MEASUREMENT

MONEY Week IO Lesson 5

Coins and notes

## Activity 1 How much?



10 shillings coin

Activity 2
How much?


50 shillings note.

Work to do
How much?
0

___ shillings.
$2(5)$
shillings
(3)
 _ Snilimeg.

4
 shillings.
(5)


TERM I

## Week II Lesson I

## Coins and notes

Activity 1
How much?

40 shillings coin.

Activity 2 How much?


100 shillings note.

Work to do
How much?

shillings.
3

___shillings.
___shillings.

shillings.
5

shillings.

6

shilling.

TERM I

## Counting money

Activity 1 How much money?


7 shillings.

## Activity 2

How much money?


Work to do
How much?

shillings.

$\qquad$
shillings.
3

$\qquad$ shillings.
 ______shillings.
©

shillings.

TERM I

## Week II Lesson 3

## Counting money

Activity 1
How much money?


60 shillings.

## Activity 2

How much money?


71 shillings.

## Work to do

How much?
0
 _____shillings.
(2)
 shillings.

3

$\qquad$ shillings.
(4)

$\qquad$ shillings.

TERM I

## GEOMERTY

LINES

## Straight and curved lines

## Activity

Identify straight and curved lines.


## Work to do

©. Name or point or sign places with curved lines.
2. Name or point or sign places with straight lines.

Triangles, Circles and Rectangles

## Activity

Which shape?


Triangles are $A, B$, and $D$.
Circles are $E, G, H$ and $I$.
Rectangles are C, F and J.

Work to do
Which shape?


B

E

F


G

0. Triangles are?
2. Circles are?
3. Rectangles are?

## I CAN DO 1

1. Read or point or sign the numbers.
16
(23) 48
357
44
29
34 2
2. How many?

| Number | Objects |
| :--- | :--- |
|  |  |
|  |  |

3. Count or tap or point or sign forward by 2 from 3 to 47.
4. Count or tap or point or sign backward by 2 from 48 to 2.
5. 23 is $\qquad$ tens and $\qquad$ ones.
6. Fill in or type or stamp or mount.

| Number | objects |
| :--- | :--- |
| 6 | - |
|  | $\square \square \square \square \square \square \square \square \square$ |

7. Fill in type or stamp or mount the missing number. $3,8,13,18$, $\qquad$
8. Fill in type or stamp or mount the missing number. $19,17,15,13$, $\qquad$
9. Which is a half?

A

B

C

D
10. $15+4=\square \quad$ 11. $82+7=\square \quad$ 12. $22+27=\square$
11. $3+4+2=\square$ 14. Write or stamp or type or mount the missing number $5,8, \|$, $\qquad$
12. $13-8=\square$
13. $33-5=\square$
14. 68 $-3$
15. 


19. $19-\square=12$
20. Tom has 3 books. Jane has 5 books. How many books do they have altogether?
21. Write or stamp or type or mount as addition.
$\triangle \triangle$ and $\triangle \triangle$ and $\triangle \triangle$ is

22. $\bigcirc \bigcirc$ and $\bigcirc \bigcirc$ is ○○○○
23. $\bigcirc \bigcirc$ and $\bigcirc \bigcirc$ and $\bigcirc \bigcirc$ is ○○○○○

24. $\bigcirc \bigcirc$ and $\bigcirc \bigcirc$ and $\bigcirc \bigcirc$ and $\bigcirc \bigcirc$ is $\bigcirc \bigcirc \bigcirc \bigcirc$

25 Share 9 oranges among 3 pupils.


Each pupil gets $\qquad$ oranges.
26.

27. $18 \div 3=\square$
28. $12 \div \square=3$
29. $24 \div \square=8$
30. $21 \div 3=\square$
31. $15 \div \square=3$
32. Which is shorter, longer or same as?

33. Write or stamp or type or mount heavier than or lighter than or same as.


The book is $\qquad$ the ruler.

The book is $\qquad$ the stone.


The book is $\qquad$ the pencil.
34. Which holds more?


Tin
35. Which holds less?


Kettle

Cup
36. Which holds more than, less than or same as?


Jerican fills


Sufuria
is $\qquad$ .
37. Write or stamp or mount or type the time.

38. Write or stamp or mount or type the time 6 o'clock in the digital face.

39. Look at the calender. Write or type or stamp or mount the day of the week.

| MAY 2018 |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- | :---: |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |  |
|  |  | 1 | 2 | 3 | 4 | 5 |  |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |  |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |  |
| 27 | 28 | 29 | 30 | 31 |  |  |  |

May 8 $\qquad$
May 12 $\qquad$
May 23 $\qquad$
May 31 $\qquad$
May 29 $\qquad$
40. Write or stamp or mount or type need or want.

| Item | Need or want |
| :--- | :--- |
| Dress |  |
| Food |  |
| Toy |  |
| Ball |  |

41. How many?

$\qquad$ five shillings coins.

$\qquad$ ten shillings coins.

$\qquad$ 50 shillings note $\qquad$ 40 shillings coin and $\qquad$ ten shilling coin.
42. Which is a straight line?


A

43. Which is a triangle?


B

C

## TERM 2

TERM 2

## NUMBERS

NUMBER CONCEPT Week I Lesson I

Reading numbers

## Activity

Read or point or sign the numbers.


## Work to do

Which tree has?
(35)

(10) $(49)$

(2)

TERM 2

## Week I Lesson 2

Numbers and objects

## Activity <br> How many?

| Number | Objects |
| :---: | :---: |
| 52 |  |
| 61 |  |
| 75 |  <br>  <br>  <br>  |
| 80 |  <br>  <br>  <br>  |

Work to do

## How many?

|  | Number | Objects |
| :---: | :---: | :---: |
| $a$ | 57 |  |
| b |  |  <br>  <br>  <br>  <br>  |
| C |  | ㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇ <br> 웅ㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇㅇ <br>  <br>  <br>  |
| d |  |  |

## NUMBERS

WHOLE NUMBERS

## Counting

## Activity

Count or point or sign numbers forward by 5 from 5 to 100 .
Count or point or sign numbers backward by 5 from 100 to 5.


## Work to do

0. Count or point or sign numbers forward by 5 from 10 to 100.
1. Count or point or sign numbers backward by 5 from 100 to 10.

## Hundreds, Tens and Ones

## Activity

100 can be shown using number tins.

I hundreds
0 tens
0 ones 100 is 1 hundreds 0 tens and 0 ones.


## Work to do

How many hundreds, tens and ones?
©. 23 is $\mathbf{0}$ hundreds $\underline{2}$ tens and $\mathbf{3}$ ones
2. 36 is ___ hundreds___ tens and $\qquad$ ones
8. 77 is $\qquad$ tens and $\qquad$
4. 100 is $\qquad$ hundreds $\qquad$ tens and $\qquad$ ones

TERM 2

## Week I Lesson 5

## Reading and writing numbers

## Activity

Read or point or sign and write or stamp or type or mount the numbers in symbols.

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

## Work to do

Read or point or sign and write or stamp or type or mount the numbers in symbols.


Reading and writing numbers

## Activity

Read or point or sign and write or stamp or type the numbers in words.

| Number | Word |
| :--- | :--- |
| 9 | nine |
| 10 | ten |
| 11 | eleven |
| 12 | twelve |
| 13 | thirteen |
| 14 | fourteen |
| 15 | fifteen |

## Work to do

Read or point o sign and write or stamp or type or mount the numbers in words.
-1. 9
B. 12 $\qquad$
©. 14 $\qquad$ 6. 15
4. 13 $\qquad$

TERM 2
Week 2 Lesson 2

## Number patterns

Activity 1
Write or type or stamp or mount the missing number.
27,29,31, 33, $\qquad$ 37
Are the numbers decreasing or increasing? By how many?
Count or point or sign numbers forward by 2 to get the next number $27,29,31,33, \underline{35}, 37$
Activity 2
Write or stamp or type or mount the missing number. 46, 44, 42, 40, _ 36 Are the numbers increasing or decreasing? By how many?
Count or point or sign numbers backward by 2 to get the next number. $46,44,42,40,38,36$

## Work to do

Write or type or stamp or mount the missing number.


## Week 2 Lesson 3

## Number patterns

## Activity 1

Write or stamp or type or mount the missing number. 60, 65, 70, 75,__ 85
Are the numbers decreasing or increasing? By how many?
Count or point or sign numbers forward by 5 to get the next number.
$60,65,70,75,80,85$

## Activity 2

Write or stamp or type or mount the missing number. 90, 85, 80, 75, 65 .
Are the numbers increasing or decreasing?
By how many?
Count or point or sign numbers backward by 5 to get the next number.
$90,85,80,75, \underline{70}, 65$.
Work to do
Write or stamp or type or mount the missing number.

| ©. | 45, | 50, | 55, | 60, | $\longrightarrow$ | 70 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| ©. 85, | 80, | 75, | 70, | $\longrightarrow$ | 60 |  |
| ©. | 100, | 95, | 90, | 85, | $\longrightarrow$ | 75 |
| (4. 70, | 75, | 80, | 85, | $\longrightarrow$ | 95 |  |
| ©. | 55, | 50, | 45, | 40, | $\longrightarrow$ | 30 |
| ©. | 30, | 35, | 40, | 45, | $\longrightarrow$ | 55 |

TERM 2

## NUMBERS

FRACTIONS
Week 2 Lesson 4

## A quarter

## Activity

Fold to make a quarter


A whole


Four equal parts

l out of 4 parts is shaded.

The shaded part is a quarter of a whole.

Work to do
Make or mount a quarter using circular paper cut-out.

## A quarter

## Activity

Fold to make a quarter


A whole


Four equal parts

lout of 4 parts is shaded. The shaded part is a quarter of a whole

Work to do
Make or mount a quarter using rectangular paper cut-out.

A Quarter ( $\frac{1}{4}$ )

## Activity

A quarter as $\frac{1}{4}$


Four equal parts


Four equal parts
lout of 4 parts is shaded
This is $\frac{1}{4}$

Work to do
Write or stamp or type or mount $\frac{1}{4}$ where a quarter is shaded.



B


F


G

Making a whole

## Activity

Match by colour to make a whole.


Work to do
Match paper cut-outs by size to make a whole.

## Add

Activity
What is $14+8$ ?

## Steps

$14+8=14+6+2$ - Break apart 8 as $6+2$.
$=20+2$ - Add 6 to 14 to get 20 .
$=22$

- Add 2 to 20 to get 22.
$14+8=22$

Work to do
Add
0. $19+5=\square$
2. $15+8=\square$
8. $27+6=\square$
4. $38+9=\square$
©. $13+9=\square$
6. $37+5=\square$

Add


- Add 8 ones to 9 ones to get 17 ones.
- Regroup 17 ones as I ten and 7 ones.
- Writeor stamp or type or mount 7 in the ones place.
- Take the I ten to the tens place.
- Add the tens as I + $2=3$ tens.
- Write or stamp or type or mount 3 in the tens place.


## Work to do

Add
D. 28

+ 8
$\qquad$
(4. 15
$+5$
(2. 22
$+9$
©. 34
$+7$

3. 37
$+6$
$\qquad$
©. 33

| $+\quad 9$ |
| :--- |

## Week 3 Lesson 5

## Add

## Activity

What is $68+5$ ?

## Steps

$$
\begin{aligned}
68+5 & =68+2+3 & & \text { Break apart } 5 \text { as } 2+3 . \\
& =70+3 & & \text { • Add } 2 \text { to } 68 \text { to get } 70 . \\
& =73 & & \text { - Add } 3 \text { to } 70 \text { to get } \\
68+5 & =73 & & 73 .
\end{aligned}
$$

Work to do
Add
(1. $46+6=\square$
2. $68+5=\square$
8. $74+7=\square$
(4. $55+8=\square$
©. $82+9=\square$
6. $39+3=\square$

## Add

## Activity 1

There are 46 trees in a farm. Linda planted 9 more trees. How many trees are there altogether?

## Steps

- Add 6 ones to 9 ones
- Write or stamp to get 15 ones. or type or mount as. Regroup 15 ones as I ten and

| Tens | Ones |
| :---: | :---: |
| $(1) 4$ | 6 |
| + | 9 |
| 5 | 5 | 5 ones.

- Write or stamp or type or mount 5 in the ones place.
- Take the I ten to the tens place.
- Add tens as $1+4=5$ tens.
- Write or stamp or type or mount 5 in the tens place.


## Work to do

Add
(1.
42
$+8$
2. 86
$\begin{array}{r}+\quad 9 \\ \hline\end{array}$
(3. 59
$+7$
4. Amina has 18 books. Jane has 7 books. How many books do they have altogether?
6. Jesse has 8 fish. He bought 33 more fish. How many fish does he have altogether?

TERM 2
Week 4 Lesson 2

## Add

## Activity

What is $7+5+3$ ?

$$
\begin{aligned}
7+5+3 & =\square & & \text { Steps } \\
7+3 & =10 & & \text { • Add } 3 \text { to } 7 \text { to get } 10 . \\
10+5 & =15 & & \text { • Add } 5 \text { to } 10 \text { to get } 15 .
\end{aligned}
$$

$7+5+3=15$.
Work to do
Add
0. $4+6+5=\square$
(2. $3+8+4=\square$
8. $9+4+1=\square$
(4. $7+5+2=\square$
©. $6+8+2=\square$
๑. $3+9+7=\square$

## Add

## Activity

What is $64+23$ ?

$$
64+23=\square \quad \text { Steps }
$$

- Add 4 ones to 3 ones

$$
64+23=87
$$ to get 7 ones.

- Add 6 tens to 2 tens to get 8 tens
- Write 7 as ones and 8 as tens


## Work to do

Add
D. $35+23=$ $\square$ 3. $16+43=\square$
(2. $65+31=$ $\square$ 4. $75+12=\square$
©. Musa had 76 camels. He bought 22 more camels. How many camels does he have altogether?
6. Grade two had 34 pupils in term one. In term two, 12 more pupils joined the class. How many pupils are there altogether?

## Add

## Activity

What is $18+27$ ? Steps 8 ones to 7 ones to

$$
18+27=\square
$$ get 15 ones.

- Regroup I5 ones as Iten and 5 ones.
- Add tens as I $+1+2=4$ tens.
- Write or stamp or type or mount 5 as ones and

$$
18+27=45
$$ 4 as tens.

Work to do
Add

1. $\square$ 3. $18+34=$ $\square$
(2. $22+19=\square$
(4. $16+18=$ $\square$
©. A tailor had 28 shirts. He made 22 more shirts. How many shirts does he have altogether?
2. Grade two pupils planted 25 trees. Grade three pupils planted 18 trees. How many trees did they plant altogether?

## Add

Activity
Add 31 $+\quad 19$

## Steps

- Add I ones to 9 ones to get 10 ones.
- Regroup IO ones as I ten and 0 ones.
- Write or stamp or type or mount 0 in the ones place.
- Take the I ten to the tens place.
- Add tens as I + $3+1=5$ tens.
- Write or stamp or type or mount 5 in the tens place.


## Work to do

Add
©
(2. 24
B. 36
4. 28
$+19$ $\qquad$ $\begin{array}{r}+14 \\ \hline\end{array}$
$+15$
(5) Mary has $\overline{25 \text { bananas. She buys } 1 \overline{9} \text { more }}$ bananas. How many bananas does she have altogether?
(6) Mwau had 18 chicken. He bought 23 more chicken. How many chicken does he have altogether?

TERM 2
Week 5 Lesson I

## Number patterns

## Activity

Write or type or mount or stamp the missing number in the pattern.
17, 19, 21, 23, $\qquad$ 27
There are 2 steps from 17 to 19.
Add 2 to a number to get the next number.
$17+2=19$
$19+2=21$
$21+2=23$
$23+2=25$
The missing number is 25 .
The pattern is $17,19,21,23, \underline{25}, 27$.

## Work to do

Write or type or mount or stamp the missing number
©. $35,37,39,41 \longrightarrow 45$.
(2. $25,28,31,34$,
3. $15,20,25, \longrightarrow \quad \longrightarrow 40$.
©. John planted 30 trees on Monday. He planted 35 trees on Tuesday and 40 trees on Wednesday. Using the pattern, how many trees did he plant on Thursday?
©. Jane sold 15 pencils in April. She sold 17 pencils in May and 19 pencils in June. Using the pattern, how many pencils did she sell in July?

## NUMBERS

SUBTRACTION

## Subtract

## Activity

What is $70-30$ ?
70 is 7 tens and 30 is 3 tens.


7 tens take away 3 tens is 4 tens. 4 tens is 40 .

$$
70-30=40 .
$$

## Work to do

0. $30-10=\square$
(3. $70-40=\square$
(2. $50-20=\square$
(4. $90-50=\square$
©. A father had 40 cows. He gave his daughter 10 cows. How many cows was he left with?
1. Alice had 80 packets of milk. She gave her friends 30 packets. How many packets of milk was she left with?

TERM 2

## Week 5 Lesson 3

Subtract

## Activity

Work out 50
$-20$


5 tens take away 2 tens is 3 tens.
3 tens is 30 .

| 50 |
| ---: |
| -20 |
| 30 |

Work to do
0. 50
(2. 40
3. 60
(4. 90

- 30
- 10

| -20 |
| :--- |

- 40
©. Salim had 50 fish. He sold 40 fish. How many fish was he left with?
©. Nduku made 30 chapatis. She sold 20 chapatis. How many chapatis remained?


## Week 5 Lesson 4

## Add and Subtract

## Activity

Use addition and subtraction
$7+8=15$
With addition, we write or stamp or type or mount
$7+8=15$ and $8+7=15$
With subtraction, we write or stamp
or type or mount
$15-8=7$ and $15-7=8$.
The numbers $7,8,15$ make a number family .
Work to do
0. $\begin{array}{rlrl}9+5 & =14 & 5+9 & =\square \\ 14-\square & =9 & 14-9 & =\square\end{array}$
2. $6+8=\square$
$8+6=\square$
$14-6=\square$
$14-8=\square$
8. $8+5=13$
$5+8=\square$
$13-5=\square$
$13-8=\square$
(4. $12+3=\square$
$3+12=\square$
$15-3=\square$
$15-12=\square$

## Subtract

## Activity

Write or type or mount or stamp the missing number
$13-\square=5$ - To get the missing number, subtract the smaller number from the bigger number as

$$
13-5=8
$$

- The missing number is 8 . $5,8,13$ is a number family

$$
13-8=5
$$

## Work to do

Write or type or mount or stamp the missing number.
0. $77-\square=71$
(2. $68-\square=63$
8. $29-\square=25$
(4. $57-\square=54$
©. $89-\square=81$
6. $95-\square=93$

## Subtract

## Activity

Write or type or mount or stamp the missing number

$$
\begin{aligned}
\square-4=6 \quad \begin{array}{l}
\text { • } \begin{array}{l}
\text { To get the missing } \\
\text { number, add the two } \\
\text { given numbers as } \\
\\
\\
4+6=10 .
\end{array} \\
10-4=6 \quad \text { The missing number is } 10
\end{array}
\end{aligned}
$$

Work to do
Write or type or mount or stamp the missing number.
0. $\square$

$$
-6=21
$$

2. $\square-7=32$
(3. $\square-3=44$
3. $\square-5=42$
4. $\square-2=95$
5. $\square-4=81$

## Subtract

## Activity

Write or type or mount or stamp the missing number

$$
59-\square=34
$$

- To get the missing number, subtract the smaller number from the bigger number as

$$
59-34=25
$$

$59-25=34$

- The missing number is 25 .

Work to do
Write or type or mount or stamp the missing number.
$\begin{array}{lll}\text { 0. } 34-\square=23 & \text { (2. } 66-\square=32\end{array}$
8. $87-\square$
$=45$
(4. $28-\square=16$
©. $25-\square$
$=14$
6. $98-\square=64$

## Number Patterns

## Activity

Write or type or mount or stamp the missing number in the pattern.
39, 37, 35
There are 2 steps from 39 to 27 .
Subtract 2 from a number to get the next number,
$39-2=37$
$37-2=35$
$35-2=33$
The missing number is 33
The pattern is $39,37,35,33$

## Work to do

Write or type or mount or stamp the missing number.
0. $28,26,24,22$, $\qquad$ .
(2. $49,48,47, \ldots 45$.
3. $30,25,20$, $\qquad$ 10.
(4. $50,40,30$, $\qquad$ .
©. $40,38,36$, $\qquad$ $\longrightarrow 30$.

## NUMBERS

MULTIPLICATION Week 6 Lesson 4
Multiply

## Activity

Multiply by 2


There are 2 groups each with 3 objects, giving 6 objects.

Write $3+3=6$ as $2 \times 3=6$.

Work to do
Multiply
©. $2 \times 1=\square$
(2. $2 \times 2=\square$
3. $2 \times 3=\square$
©. $2 \times 4=\square$
©. $2 \times 5=\square$
©. $2 \times 6=\square$
0. $2 \times 7=\square$
©. $2 \times 8=\square$
๑. $2 \times 9=\square$

Multiply

## Activity

Multiply by 3

$4+4+4=12$
There are 3 groups with 4 objects each, giving 12 objects
Write or stamp or type or mount.
$4+4+4=12$ as $3 \times 4=12$.
Work to do
Multiply
0. $3 \times 1=\square$
(2. $3 \times 2=\square$
8. $3 \times 4=\square$
(4. $3 \times 5=\square$
©. $3 \times 6=\square$
©. $3 \times 7=$
$=\square$
0. $3 \times 8=\square$
(8. $3 \times 9=\square$

TERM 3

Multiply


Work to do
Multiply
0. $4 \times 1=\square$
2. $4 \times 2=\square$
3. $4 \times 3=\square$
©. $4 \times 4=\square$
©. $4 \times 6=$
6. $4 \times 7=$
0. $4 \times 8=$ $\square$
(8) $4 \times 9=\square$

TERM 2

## NUMBERS

DIVISION
Week 7 Lesson 2
Equal sharing

## Activity

Share equally 6 bottle tops between 2 pupils.
Pick one at a time


Each pupil gets 3 bottle tops
Work to do
How many each?
(1) Share 8 oranges equally between 2 pupils.


Each pupil gets $\square$ oranges
(2) Share 6 seeds equally between 2 pupils.


Each pupil gets $\square$ seeds
(3) Share 8 balls equally among 4 pupils


Each pupil gets $\square$ balls.
(4) Share 15 pebbles equally between 5 pupils


Each pupil gets $\square$ Pebbles.

TERM 2

## Equal grouping

## Activity 1

How many groups?
Pick 3 items at a time.


There are 4 groups.
Work to do How many groups?
(1) Pick 2 at a time.

(2) Pick 3 at a time.

(3) Pick 5 at a time.

(4) Pick 4 at a time.


TERM 2

## Week 7 Lesson 4

Division ' $\quad$ ' sign

## Activity 1

Share equally.


This is $10 \div 2$
Activity 2
beber
Put into 3 equal groups.


This is $6 \div 3$

## Work to do

(1) Share equally to 3 pupils This is $6 \div 3$
(2) Put or mount or stamp into 2 equal groups.


This is 8 $\qquad$
(3) Share equally to 2 pupils. 4 ___ 2
(4) Put or mount or stamp type into 5 equal groups.
(5) Share equally among 3 pupils ____ $\div 3$.


TERM 2

## Division

Activity 1
$\Leftrightarrow$ Share $H$ equally o ach $6 \div 3 \div 2$

Work to do
(1) Write or stamp or type or mount.

(2) $1+$ Share equally

each gets

$\square \quad \square \quad=\quad \square$
(3) Minininid Put or stamp or mount into 2 equal groups, each group has?

Diliil
Miliin

(4) Put or stamp or mou
5 equal groups, each
group has?


TERM 2

## Week 8 Lesson I

## Divide

Activity 1
Divide by 2
$10 \div 2=\square$


10 shared equally between 2 is 5
$10 \div 2=5$
Activity 2
Divide by 3

$$
6 \div 3=\square
$$

share equally


## MEASUREMENT

## LENGTH <br> Measuring length

Week 8 Lesson 2

## Activity

Measure the length of the chalkboard.


The length of the chalkboard is $\qquad$
Work to do

|  | Number of sticks |  |  |
| :--- | :--- | :--- | :--- |
| What is the length of the? | Blue | White | Red |
| (1) Longer side of <br> classroom wall |  |  |  |
| (2 <br> Shorter side of <br> classroom wall |  |  |  |

Measuring length

## Activity

Measure the classroom wall using a I metre stick.


The classroom wall is ___ metre sticks.
The classroom wall is $\qquad$
Work to do

| Measure | Number <br> of I metre <br> sticks | Length in <br> metres |
| :---: | :--- | :--- |
| ( The Longer side of <br> the classroom wall |  |  |
| (2 The shorter side of <br> the classroom wall |  |  |
| (3 The teacher's table |  |  |

## MEASUREMENT

Measuring mass

## Activity

Measure mass


The mass of the sand is I kilogram. We write or type or mount or stamp kilogram as kg.

Work to do
Write or type or mount or stamp things measured in kilograms.
| kilogram mass

## Activity

Use a beam balance to make al kg mass of soil.


Work to do
Use a beam balance to make lkg mass of
(1) Seeds
(2) Stones
(3) Sand

## MEASUREMENT

## CAPACITY

## Measuring capacity

## Activity

How many jugs full of water will fill the basin?


Basin
___ jugs full of water fill the basin.

Work to do

| How many jugs full of water <br> will fill ? | Number of <br> jugs |
| :--- | :--- |
| (1) A bucket |  |
| (2) A jerrycan |  |
| 3 A sufuria |  |

## Measuring capacity

## Activity 1

How many jugs full of water will fill the bucket?


Jug
jugs of water fill a bucket

## Activity 2

How many tins full of water will fill the bucket?

tins full of water will fill the bucket.

Work to do
How many?


1 litre tin

fill the
fill the

## Measuring capacity

## Activity

How many litres does the pot hold?

I- litre tin


Pot

The pot is filled by $\qquad$ I litre tins. The pot is $\qquad$ litres.

Work to do

| How many will fill? | Number of <br> litre tins | Capacity <br> in litres |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

TERM 2

## MEASUREMENT

TIME
Week 9 Lesson 4

## Measuring time

## Activity

How much time?
Count or point or sign the number of nods or taps or stumps.

Wimbo wa taifa
Ee Mungu nguvu yetu
Ilete baraka kwetu
Haki iwe ngao na mlinzi
Natukae na undugu
Amani na uhuru
Raha tupate na ustawi.
It takes $\qquad$ nods or taps or stumps to sing the first stanza of the National Anthem

## Work to do

Sing or sign or hum or mime or tap the first stanza of the National Anthem.

| Count how many | Number |
| :--- | :--- |
| ( $)$ Foot thumps |  |
| (2) | Nods |
| (3) |  |

TERM 2

## Measuring time

## Activity

Count or point or sign the number of nods or taps or stumps.

National Anthem<br>Oh God of all creation<br>Bless this our land and nation Justice be our shield and defender May we dwell in unity<br>Peace and liberty<br>Plenty be found within our borders.

It takes___ nods or taps or stumps to sing the first stanza of the National Anthem.

## Work to do

Sing or sign or hum or mime or tap a familiar song and count or sign or point the number of nods or taps or stumps.

A clock face

## Activity

What is in the picture?


This is a clock face. It has two hands.
The long hand is called minute hand.
The short hand is called hour hand.
The clock face has the numbers 1 to 12.

Work to do
Draw or stamp or mount a Clock face.
Show or point the hour hand and minute hand.

## Reading and telling time

Activity 1
Read or point or sign the time.


The time is 6 o'clock

Activity 2
Read or point or sign the time.


The time is 3 o'clock

## Work to do

Read or point or sign the time

| Clock | Time |
| :---: | :---: |
| 1 |  |
| (2) |  |
| (3) |  |

## MEASUREMENT

Buying and selling

## Activity <br> Buy and sell



Work to do
How much?

| Item | Price |
| :--- | :--- |
| (1 Milk |  |
| (2 Exercise book |  |
| (3 Bread |  |
| (4 Pencil |  |

TERM 2

## Change



Work to do
How many?

five shillings coins.
(2)

$\qquad$
twenty shillings coins.

ten shillings coins. five shillings coins.

TERM 2

## Week 10 Lesson 5

Needs and wants

## Activity

Tell or sign or point a need or a want.


Ball


Dress


Food


House


Car

Work to do
Write or stamp or mount or type need or want.

| Item | Need or want |
| :--- | :--- |
| ( Radio |  |
| (2 Ball |  |
| 3 Food |  |
| 4 Car |  |
| $\mathbf{5}$ House |  |
| 6 Dress |  |

## Spending and saving

## Activity

How much saving?


Sh. 55
Sh. 60
Susan bought milk at Sh. 55. Job bought the same type of milk at Sh. 60.
Susan spent sh. 5 less than Job. Susan saved Sh. 5.

## Work to do

(1) Hellen bought a school bag at Sh. 70. Joash bought the same type of bag at Sh.90. How much money did Hellen save?
(2) Juma and Amina live in the same homestead. Amina paid sh. 30 to school. Juma paid Sh. 20 to the same school. How much money did Juma save?

TERM 2

## GEOMETRY

LINES Week II Lesson 2
Making straight lines

## Activity

Make or mount straight lines.


Work to do
Use plasticine or clay to make or mount straight lines.

TERM 2
Week II Lesson 3

## Drawing straight lines

Activity
Draw or stamp or mount straight lines.


These are straight lines.

Work to do
Draw or stamp or mount straight lines.

TERM 2
GEOMETRY

## SHAPES <br> Week II Lesson 4

Ovals

## Activity

Tell or sign or point the shape.


This is an Oval shape.

Work to do
Which is oval?


Oval shapes are

TERM 2

## Week II Lesson 5

## Making patterns

## Activity

Make or mount patterns.


The pattern is Rectangle/Circle/Rectangle/Cirle..


The pattern is Circle/Oval/Cirle/Oval .....


The pattern is Triangle/Oval/Rectangle....

## Work to do

Make or mount patterns using paper cut-outs of triangles, circles, rectangles and ovals.

## I CAN DO

1. Read or sign or point the numbers

|  | 13 | 6 | 29 | 58 | 17 |
| :--- | :--- | :--- | :--- | :--- | :--- | 67 |  | 46 | 25 |
| :--- | :--- | :--- | :--- |

2. How many?

| Number | Objects |
| :---: | :---: |
|  | ○0000000000000000000 <br> 00000000000000000000 <br> 00000000000000000000 <br> ○○○○○○○○○○○○○○○○○○○○ |

3. Count or sign or point numbers forward by 5 from 41 to 99 .
4. Count or sign or point numbers backward by 5 from 100 to 5 .
5. 100 is $\qquad$ hundreds $\qquad$ tens and $\qquad$ ones.
6. Fill in or mount or stamp or type

| Number | Objects |
| :--- | :---: |
| 11 | - |
|  | 0000000000000 |

7. Fill in or mount or stamp or type the missing number. $64,69,74,79$, $\qquad$
8. Fill or mount or stamp or type in the missing number. 83, 81, 79, 77, $\qquad$
9. Which is a quarter?

A

B

C

D
10. $17+14=\square$ 11.. $16+19=\square$
12.. 28
$+\quad 29$
11. $28+7=\square$
12. Daniel planted 19 lemon trees last week. He planted 24 lemon trees this week. How many lemon trees has Daniel planted altogether?
13. $13,17,21,25$, $\qquad$ , $\qquad$ .
14. $70-50=\square$
17.. Complete the number family.

15. $\square-5=8$
16. $19-\square=12$
17. Fill in or stamp or mount or type the missing number in the pattern $70,68,66, \ldots-$----
18. 


$=3 \times 5=$ $\qquad$
22.


$=3 \times 3=$ $\qquad$
23.

$=3 \times 4=$ $\qquad$
24.


$$
=2 \times 5=
$$

25. © (○) (O) $(\bigcirc)=4 \times 2=\ldots-$
26. Share 12 books among 3 pupils.


Each pupil gets $\qquad$ books.
$\square \div 2=4$
$18 \div 3$
$=\square$
$12 \div \square=3$
$24 \div \square=8$
$21 \div 3=\square$
$\square \div 5=3$
27. Which is shorter, longer or same as?

28. Write or stamp or mount or type heavier or lighter or same as.


Ball $A$ is ball B


The ruler is $\qquad$ the book.


The cup is $\qquad$ the stone.


The pencil is $\qquad$ the stone.
29. Look at the calendar. Write or stamp or mount or type the day of the week.

| SEPTEMBER 2018 |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- | :---: |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |  |
|  |  |  |  |  |  | 1 |  |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |  |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |  |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |  |
| 30 |  |  |  |  |  |  |  |

a) September 9 $\qquad$
b) September 14 $\qquad$
c) September 20 $\qquad$
d) September 24 $\qquad$
e) September 29 $\qquad$
30. Write or stamp or mount or type need or want.

| No | Item | Need or want |
| :--- | :--- | :--- |
| 1. | Water |  |
| 2. | Food |  |
| 3. | Phone |  |
| 4. | Bicycle |  |

31. How many?

$\qquad$ one shilling coins.
b
 five shillings coins.


50 shillings notes,
20 shillings coin and $\qquad$ 5 shillings coins.
32. Draw or stamp or mount straight line.
33. Complete the pattern.


## TERM 3

TERM 3

## NUMBERS

NUMBER CONCEPT Week I Lesson I

Reading numbers

## Activity

Read or sign or point the numbers.

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

## Work to do

Read or sign or point the numbers.
9

85

58


TERM 3

Numbers using objects

## Activity <br> How many？

| Number | Objects |
| :---: | :---: |
| 77 | 世＋ <br> 别 <br> 世र <br>  <br>  |
| 85 |  <br>  <br>  <br>  |
| 96 |  <br>  <br>  <br>  |
| 100 | 0000000000000000 <br>  <br>  <br>  <br> 00000000000000000 |

Work to do
How many?

|  | Number | Objects |
| :---: | :---: | :---: |
| $a$ | 68 |  <br>  <br>  <br>  |
| b |  |  |
| C |  |  |
| d |  |  |

Counting numbers

## Activity

Count or point or sign numbers forward by 10 from 10 to 100 . Count or point or sign numbers backward by 10 from 100 to 10.


Work to do
0. Count or point or sign numbers forward by 10 from II to 91.
(2. Count or point or sign numbers backward by 10 from 91 toll.

TERM 3

## Hundreds, Tens and Ones

## Activity

100 can be shown using abacus.


I hundreds 0 tens 0 ones

## Work to do

How many hundreds, tens and ones?
(1) 58 is $\mathbf{0}$ hundreds 5 tens 8 ones.
(2. 81 is
___ hundreds $\qquad$ tens $\qquad$ ones.
8. 97 is ___ hundreds $\qquad$ tens $\qquad$ ones.
©. 100 is $\qquad$ hundreds $\qquad$ tens ones.

TERM 3

## Week I Lesson 5

Reading and writing numbers

## Activity

Read or sign or point and write or stamp or type or mount the numbers in symbols.

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

Work to do
Read or point or sign and write or stamp or mount or type the numbers in symbols.


TERM 3

## Week 2 Lesson I

## Reading and writing numbers

## Activity

Read or point or sign and write or stamp or mount or type the numbers in words.

| Number | Word |
| :--- | :--- |
| 16 | sixteen |
| 17 | seventeen |
| 18 | eighteen |
| 19 | nineteen |
| 20 | twenty |

## Work to do

Write or stamp or mount or type the numbers in symbols or words.
0. $\qquad$ sixteen
2. 17
0.18 $\qquad$ 4. 19
$\oplus$. $\qquad$ twenty
๑. 15

TERM 3
Week 2 Lesson 2

## Number patterns

## Activity 1

Write or stamp or type or mount the missing number. 77, 79, 81, 83, ____, 87
Are the numbers decreasing or increasing?
By how many?
Count or sign or point numbers forward by
2 to get the next number.
$77,79,81,83,85,87$

## Activity 2

Write or stamp or type or mount the missing number 92, 90, 88, 86, $\qquad$ 82
Are the numbers increasing or decreasing?
By how many?
Count or sign or point backward by 2 to get the next number.

```
\(92,90,88,86, \underline{84}, 82\)
```


## Work to do

Write or stamp or type or mount the missing number.
©. $50,52,54,56, \longrightarrow 60$
C. $69,71,73,75, \longrightarrow 79$
8. $100,98,96,94, \ldots 90$
©. $89,87,85,83, \longrightarrow 79$
©. $59,61,63,65, \longrightarrow 69$
©. $48,46,44,42, \longrightarrow 38$

TERM 3
Week 2 Lesson 3

## Number patterns

## Activity 1

Write or type or stamp or mount the missing number. 20, 30, 40, 50,___, 70,
Are the numbers decreasing or increasing?
By how many?
Count or or sign or point numbers forward by 10 to get the next number.
$20,30,40,50,60,70$,
Activity 2
Write or type or stamp or mount the missing number. 80, 70, 60, 50, ___, 30
Are the numbers increasing or decreasing?
By how many?
Count or sign or point numbers backward by 10 to get the next number.
$80,70,60,50,40,30$
Work to do
Write or type or stamp or mount the missing number.

| (1) 40, | 50, | 60, | 70, | $\longrightarrow$ | 90 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| (2. 100, | 90, | 80, | 70, | $\longrightarrow$ | 50 |
| 3. 15, | 25, | 35, | 45, | $\longrightarrow$ | 65 |
| 4. 95, | 85, | 75, | 65, | $\longrightarrow$ | 45 |
| (5. 10, | 20, | 30, | 40, | $\longrightarrow$ | 60 |
| 6. 70, | 60, | 50, | 40, | $\longrightarrow$ | 20 |

A half and a quarter

## Activity

Which is bigger?
Which is smaller?


A half of a whole


A half is bigger than a quarter. A quarter is smaller than a half.

## Work to do

Using circular paper cut-outs, fold a half and a quarter.
0. Which is bigger?
(2. Which is smaller?

## A half and a quarter

## Activity

Which is bigger?
Which is smaller?


A half of a whole


A quarter
of a whole


A half is bigger than a quarter.
A quarter is smaller than a half.

## Work to do

Using rectangular paper cut-outs, fold a half and a quarter.
0. Which is bigger?
(2. Which is smaller?

TERM 3

## Making a half

## Activity

Match by colour to make a half.


B


C


Work to do
Match paper cut-outs by size to make a half.

TERM 3

## Week 3 Lesson 2

A $\frac{1}{2}$ and a $\frac{1}{4}$

## Activity

Write or type or stamp or mount $a \frac{1}{2}$ or a $\frac{1}{4}$

b

c

$a$ is $a \frac{1}{4}$
$b$ is $a \frac{1}{2}$
c is a $\frac{1}{4}$
d is a $\frac{1}{2}$
Work to do
Write or type or stamp or mount $\frac{1}{2}$ or $\frac{1}{4}$

$\qquad$

TERM 3
NUMBERS
ADDITION

## Week 3 Lesson 3

## Add

Activity
Add
56
+43 Steps

- Add 6 ones to 3 ones to

Write or type or stamp or mount as tens and ones
 get 9 ones.

- Write or type or stamp or mount 9 in ones place.
- Add 5 tens to 4 tens to get 9 tens.
- Write or type or stamp or mount 9 in tens place

Work to do
Add
0.
47
(2. 53
8. 62
©. 71
$+32$
$+25$
$+16$ $+23$
9. A box has 26 buttons. A tailor put 53 more buttons in the box. How many buttons are in the box altogether?

## Add

## Activity

What is $38+25$ ?
$38+25=\square$

## Steps

- Add 8 ones to 5 ones to get 13 ones.
- Regroup I3 ones as I tens and 3 ones.
- Write or type or stamp or mount 3 as ones .
- Add the tens as $1+3+2=6$ tens.
- Write or type or stamp or mount 6 as tens.

$$
38+25=63
$$

Work to do
Add
0. $26+39=\square$
(2. $53+37=\square$
8. $45+18=\square$
©. $76+19=\square$
©. Chalo planted 72 flowers on Monday. On Tuesday he planted 28 more flowers. How many flowers did he plant altogether?
©. In Grade two, there are 56 girls and 37 boys. How many pupils are there in Grade two altogether?

TERM 3
Week 3 Lesson 5
Add
Activity

## Steps

Add

$$
\begin{array}{r}
69 \\
+24 \\
\hline
\end{array}
$$

Add 9 ones to 4 ones to get l3 ones.
Regroup I3 ones as I ten and 3 ones.
Write or stamp or type or mount 3 ones in the ones place.
Add tens as I $+6+2=9$ tens.
Write or stamp or type or mount 9 in the tens place.

## Work to do

## Add

0. 

©. 37
$\begin{array}{r}79 \\ +\quad 19 \\ \hline\end{array}$ $\qquad$
8. 45
©. 63
$+38$
$+27$
©. Christine had 53 bags of maize. She bought 37 more bags of maize. How many bags of maize does she have altogether?
©. In a school, there are 37 tables. The school is given 24 more tables. How many tables are in the school altogether?

TERM 3
Week 4 Lesson I

## Number patterns

## Activity

Write or stamp or type or mount the missing number in the pattern.
$44,54,64,74$, $\qquad$
There are 10 steps from 44 to 54 . Add 10 to a number to get the next number.

$$
\begin{aligned}
& 44+10=54 \\
& 54+10=64 \\
& 64+10=74 \\
& 74+10=84
\end{aligned}
$$

The missing number is 84 . The pattern is
$44,54,64,74,84$.

## Work to do

Write or stamp or type or mount the missing number.
©. $35,40,45$, $\qquad$ , 55
©. $52,56,60$, $\qquad$ ,
8. $87,90,93,96$ $\qquad$ ,
©. $73,75,77,79$, $\qquad$ , 83
©. Agnes bought 15 tomatoes on Monday. She bought 20 tomatoes on Tuesday. She bought 25 tomatoes on Wednesday. Using the pattern, how many tomatoes will she buy on Thursday?
©. Richard read 6 pages of a story book on Sunday. He read 9 pages on Monday. On Tuesday he read 12 pages. Using the pattern, how many pages will he read on Wednesday?

Subtract

## Activity

What is $37-14$ ?

## Steps

$37-14=\square$

- Subtract 4 ones from 7 ones to get 3 ones.
- Write or stamp or type or mount 3 as ones.
- Subtract I ten from 3 tens

$$
37-14=23
$$ to get 2 tens.

- Write or stamp or type or mount 2 as tens.

Work to do
Subtract
0. $27-16=\square$ (2. $39-14=\square$
(3. $45-13=\square$ 4. $35-23=\square$
(5. $94-50=\square$
6. $56-32=\square$

TERM 3

## Week 4 Lesson 3

## Subtract

## Activity

Subtract 57

$$
-26
$$

## Steps

- 7 ones -6 ones $=1$ ones.
- Write or stamp or type or mount I in ones place.
- Subtract the tens as 5-2 to get 3 tens.
- Write or stamp or type or mount 3 on tens place.

Work to do
Subtract
(1) 49
2. 39
3. 77

- 27

4. 69

- 61
(5. 86

6. 98

- 43

| -36 |
| :--- |

## Add and Subtract

## Activity

Use addition and subtraction
$25+34=59$ and $34+25=59$
With subtraction, we write or stamp or type or mount.
$59-25=34$ and $59-34=25$
The numbers 25,34 and 59 make a number family.
Work to do
Write or stamp or type or mount the missing numbers.
©. $32+13=45$
$13+32=\square$
$45-\square=13$
$45-13=\square$
2. $21+18=\square$
$\square-21=\square$

$$
\begin{aligned}
& 18+21=\square \\
& 39-18=\square
\end{aligned}
$$

3. $46+33=\square$

$$
79-\square=46
$$

$$
33+46=\square
$$

$$
79-\square=33
$$

4. $57+42=99$

$$
42+57=\square
$$

$$
\square-57=42
$$

$$
99-\square=57
$$

## Subtract

## Activity <br> Write or stamp or type or mount the missing number.

$$
\square-35=42 \quad \text { Steps }
$$

- To get the missing
number, add 35 and 42 to get 77.
$77-35=42 \quad$. The missing number is 77

Work to do
Write or stamp or type or mount the missing numbers.
0. $\square-16=52$
2. $\square-22=33$
3. $\square-15=61$
©. $\square-23=63$
9. $\square-14=74$
๑. $\square-11=12$

## Number Patterns

## Activity

Write or stamp or type or mount the missing number.
79, 76, 73,
There are 3 steps from 79 to 76 .
Subtract 3 from a number to get the next number as $79-3=76$

$$
\begin{aligned}
& 76-3=73 \\
& 73-3=70
\end{aligned}
$$

The next number is 70 . The pattern is $79,76,73,70$.

## Work to do

Write or stamp or type or mount the next number
0. $59,57,55,53$ $\qquad$ .
(2. $60,55,50,45$ $\qquad$
$\qquad$
8. $90,80,70,60$, $\qquad$
$\qquad$
©. In April, 89 people went to hospital. In May, 86 people went to hospital. In June, 83 people went to hospital. Using the pattern, how many people went to hospital in July?

## Activity

Multiply by 5


There are 5 groups.
Each group has 3 objects.
There are 15 objects altogether.
Write or stamp or type or mount
$3+3+3+3+3=15$ as $5 \times 3=15$
Work to do
Multiply
(0. $5 \times 1=\square$
2. $5 \times 2=\square$
(3.5 $\times 3=\square$
4. $5 \times 4=\square$
$5.5 \times 5=\square$
6. $5 \times 6=\square$
$0.5 \times 7=\square$
(8. $5 \times 8=\square$
9. $5 \times 9=\square$

## Week 5 Lesson 3

## Multiply

## Activity

Multiply by 10


There are 10 groups.
Each group has 2 objects.
There are 20 objects altogether.
Write or stamp or type or mount $2+2+2+2+$
$2+2+2+2+2+2=20$

$$
\text { as } 10 \times 2=20
$$

Work to do
Multiply
0. 10 $\times 1=\square$
2. $10 \times 2=\square$
3. $10 \times 3=\square$
(4. $10 \times 4=\square$
©. $10 \times 5=\square$
©. $10 \times 6=\square$
0. $10 \times 7=\square$
(3. $10 \times 8=\square$

- $10 \times 9=\square$

TERM 3
NUMBERS
DIVISION Week 5 Lesson 4

Divide
Activity 1
Divide
$8 \div 4=\square$


$$
8 \div 4=2
$$

Work to do
Divide

0

$8 \div \square$

2
(4)

$10 \square$

## Divide

## Activity 1

Teacher Tito shared 12 oranges equally among 3 pupils. How many oranges did each pupil get?
 equally


Each pupil gets 4 oranges.
$12 \div 3=4$
Work to do
(1) $\quad 18 \div 3=$
(2) $8 \div 4=\square$
(3) Ruth shared 15 bananas equally among 3 children. How many bananas did each child get?
(4) A pupil put 12 exercise books in equal groups of 4 . How many groups are there?

TERM 3

## Divide

## Activity 1

## Divide

$$
24 \div 3=\square
$$



$$
24 \div 3=8
$$

Work to do
(1) $21 \div 3=\square$
(2) $24 \div 2=\square$
(3) $15 \div 5=\square$
(4) $20 \div 4=\square$
(5) Mwangi shared 15 exercise books equally among 3 pupils. How many did each pupil get ?
(6) Sifuna has 25 marbles. He wants to share equally among 5 friends. How many does each get?

TERM 3

## MEASUREMENT



## Measuring length

## Activity

Make a I metre stick using a metre rule.


Measure the length of the chalkboard using al metre stick.
The length of the chalkboard is $\qquad$ I metre sticks.
The length of the chalkboard is $\qquad$ metres.

## Work to do

Use your 1 metre stick to measure.

| Use a 1 metre stick to measure. | Number of 1 metre sticks. | Metres |
| :---: | :---: | :---: |
| (1) Length of classroom window |  |  |
| (2) Length of the longer side of the classroom |  |  |

TERM 3

## Measuring length

## Activity

Make a I metre string using a metre rule.


Measure the length of the longer side of the classroom.
The length of the longer side of the classroom is ___l metre strings.
The length of the longer side of the classroom is
$\qquad$ metres.

Work to do

| Use a I metre string <br> to measure. | Number of I <br> metre strings. | Metres |
| :--- | :--- | :--- |
| ( Length of the <br> teacher's table |  |  |
| (2) Length of the <br> shorter side of the <br> classroom |  |  |

## MEASUREMENT

## Measuring mass

## Activity

Which is heavier?
Which is lighter?
Which are same as?


The text book is lighter than the l kg mass.
1 kg mass is heavier than the text book. __text books are same as I kg mass.

## Work to do

Write or stamp or type or mount heavier than, lighter than or same as.
(1. A shoe is $\qquad$ 1 kg mass.
2. 1 kg mass is $\qquad$ a school bag.
3. A text book is $\qquad$ 1 kg mass.
4. 1 kg mass is $\qquad$ a box of chalk.

TERM 3

## Week 6 Lesson 5

## Measuring mass

## Activity

Use l kg sand bag to measure


The mass of rice is equal to two 1 kg mass of sandbags.
The mass of rice is 2 kgs .

Work to do
$\left.\begin{array}{|l|l|}\hline \begin{array}{l}\text { Use I kg sandbag to } \\ \text { measure. }\end{array} & \text { Mass in kg } \\ \hline \text { 1 } & \text { Potatoes }\end{array}\right]$

## MEASUREMENT

CAPACITY
Measuring capacity

## Activity

How many litres can the pot hold?


## Pot

I-litre tin
I litre tins of water fill the pot.
The pot holds $\qquad$ litres.

Work to do

| Use a I litre tin <br> to fill | Number of I litre <br> tins | Number of <br> litres |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

TERM 3
Week 7 Lesson 2

## Measuring capacity

## Activity

How many litres can the jerrycan hold?


I Litre tin
___ l litre tins fill a jerrycan.
The jerrycan is $\qquad$ litres.

## Work to do

| Use al litre tin <br> to fill | Number of I litre <br> tins | Number of litres |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |

MEASUREMENT
TIME
Week 7 Lesson 3
Reading and telling time

## Activity

What is the time?

$$
11 \text { : } 00
$$

6:00

The time is 11 O'clock. The time is 6 O'clock.

Work to do
What is the time?
0
3: 00
(2) 8:00
_O_ O'clock.
O'clock.

- 12:00
- $10: 00$
O'clock.
- 1:00
- 2:00
O'clock.
O'clock.


## Reading and telling time

## Activity <br> What is the time?



The time is I O'clock.
Work to do
Write or stamp or type or mount the time.

| Clock | Time |
| :---: | :---: |
| © |  |
| (2) |  |
| © |  |

## MEASUREMENT

Goods and services

## Activity

Write or stamp or type or mount good or service.


Shoe making


Cup


Hair cutting Handkerchief

Service are shoe making, hair cutting and hair plaiting.

Goods are cup, exercise book and handkerchief.

Work to do
Write or stamp or type or mount good or service.
©. Tailoring
2. Pencil
(3. Rubber
4. Cooking
©. Transport
6. Bread

## Change

## Activity 1

How many?

is


50 shillings note is two 20 shillings coins and one 10 shillings coin.
Activity 2


100 shillings note is one 50 shillings note, two 20 shillings coins and one 10 shillings coin.

Work to do
How many?
0

is
__ 50 shillings notes.
(2)

is ___ 50 shillings note $\qquad$ 10 shillings coins.

3

is ___ 10 shilling coins $\qquad$ shillings coins.

is ___ 20 shilling coins.

## GEOMETRY

LINES

$$
\text { Week } 8 \text { Lesson } 2
$$

## Curved lines

## Activity

Make or mount curved lines.


## Work to do

Use plasticine or clay to make curved lines or mount curved lines.

TERM 3

## Week 8 Lesson 3

## Drawing curved lines

## Activity

Draw or stamp or mount curved lines.


## Work to do

(1) Write or stamp or type or mount letters of the alphabet in a curved formation.
2. Write or stamp or type or mount numbers in a curved formation.

TERM 3

## GEOMETRY

## SHAPES <br> Week 8 Lesson 4

## Squares

## Activity

Name or point or sign the shape.


This is a square .
Work to do
Which are squares?


F


L


C


H


D

I


E


0

Squares are $\qquad$
$\qquad$

## Week 8 Lesson 5

## Making patterns

## Activity

Make or mount patterns.


The pattern is Rectangle/Oval/ Rectangle .........


The pattern is Circle/Square/Triangle.........


The pattern is Triangle/Circle/Square/Oval......

## Work to do

Make or mount patterns using paper cut-outs of squares, triangles, circles, rectangles and ovals.

## I CAN DO 3

1. Read or sign or point the numbers
90
84
(99) 11
50
32
40
63
79
53
2. How many?

| Number | Objects |
| :--- | :--- |
| - | 0000000000 |

3. Count or point or sign numbers forward by 10 from II to 99
4. Count or point or sign backward by 10 from 100 to 10
5. 84 is $\qquad$ hundreds $\qquad$ tens $\qquad$ ones
6. Fill in or type or stamp or mount

| Number | Objects |
| :--- | :--- |
|  | $\triangle \Delta \triangle \Delta \Delta$ |
|  | $\triangle \Delta \Delta \Delta \Delta \Delta$ |
| 18 |  |

7. Fill in or mount or type the missing number $34,4 ૫, 54,64$,
8. Fill in or type or stamp or mount the missing number 97, 95, 93, 91,
9. Which shape is shaded $\frac{1}{2}$ or $\frac{1}{4}$ ?


## Addition

10. $38+27=\square$
11. 

$$
\begin{array}{r}
55 \\
+\quad 39
\end{array}
$$

$\qquad$
12. Kigen has 35 beads. His sister gives him 42 beads. How many beads does Kigen have altogether?
13. Wafula has 35 goats. Nekesa has 25 goats. How many goats do they have altogether?
14. Write or stamp or type or mount the missing numbers. 47, 57, 67, $\qquad$ , $\qquad$ , 97.
15. $52-31=\square$
16. 95

- 32

17. Complete the number family.

$$
\begin{aligned}
& 9+6=\square \quad 6+9=\square \\
& 15-9=\square \quad 15-6=\square
\end{aligned}
$$

18. Fill or type or stamp or mount in the missing number.

$$
\square-15=27
$$

19. $8,12,16,20$, $\qquad$ , $\qquad$
20. There are 44 people in birthday party. If 21 people leave the party. How any people are left?

Multiplication
21. $2 \times 3=\square \quad$ 22. $1 \times 4=\square$
23. $4 \times 3=\square \quad$ 24. $3 \times 5=\square$
25. $2 \times 4=\square$ 26. $5 \times 2=\square$

27 Share 20 books equally among 5 pupils
0000000000
0000000000

28. Divide
$9 \div \ldots=3$
$14 \div 7=\square$
$10 \div \square=2$
$18 \div 3=\square$
$12 \div 4=\square$
$12 \div 2=\square$
29. Which is shorter, longer or same as?


B
C


D
$A$ is $\qquad$ D
$B$ is $\qquad$ C
$D$ is $\qquad$ B
30. Write or stamp or type or mount heavier than or lighter than or same as


The stone is the duster


The apple is the pineapple
31. Which is heavier than, lighter than or same as ?


The block of wood is $\qquad$ as the ball


The 1 kg mass is $\qquad$ the book.


The 1 kg mass is $\qquad$ the 1 kg mass.

The shoe is $\qquad$ the 1 kg mass.
32. Which holds more?

33. Which holds less?

34. Write or type or stamp or mountmore than, less than or same as


Bucket A holds ___ as bucket B
35. What is the time?

36. Write or stamp or mount or type the time 12 o'clock in the digital face.

37. Look at the calendar. Write or stamp or mount or type the day of the week.

| OCTOBER 2018 |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- | :---: |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |  |
|  | 1 | 2 | 3 | 4 | 5 | 6 |  |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |  |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |  |
| 28 | 29 | 30 | 31 |  |  |  |  |

a) October 5 $\qquad$
b) October 11 $\qquad$
c) October 14 $\qquad$
d) October 20 $\qquad$
e) October 31 $\qquad$
38. Write or stamp or type or mount good or service.

| Item | Good or servoce |
| :--- | :--- |
| Tailor |  |
| Bread |  |
| Transport |  |
| Rubber |  |

39. How many?

$\ldots$ shilling coins.


20 shillings notes. $\qquad$ 10 shillings coin and $\qquad$ 5 shillings coins.
40. Draw or stamp or mount a curved line.
41. Complete the pattern.


