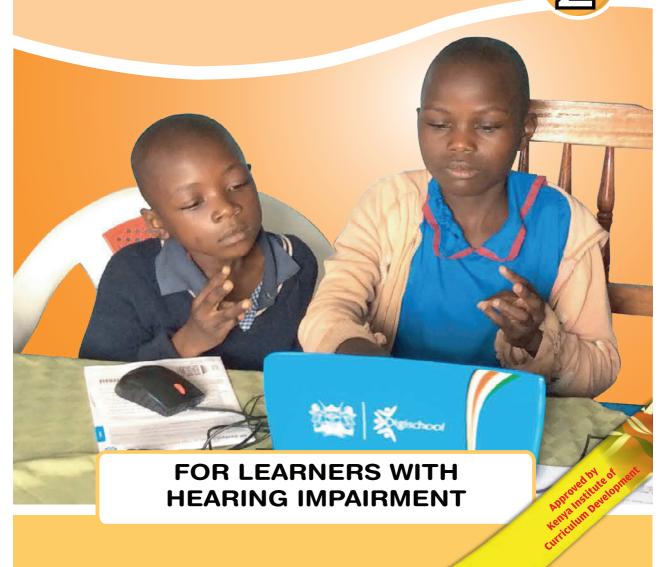


# MATHEMATICS ACTIVITIES PUPIL'S BOOK 2





## MATHEMATICS PUPIL'S BOOK 2

## FOR LEARNERS WITH HEARING IMPAIRMENT



#### 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 21st 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.

Ams >

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.

Dr/Belio R. Kipsang, CBS

**Principal Secretary** 

State Department of Early Learning and Basic Education

#### 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 multimembers 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.

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**Ministry of Education** 

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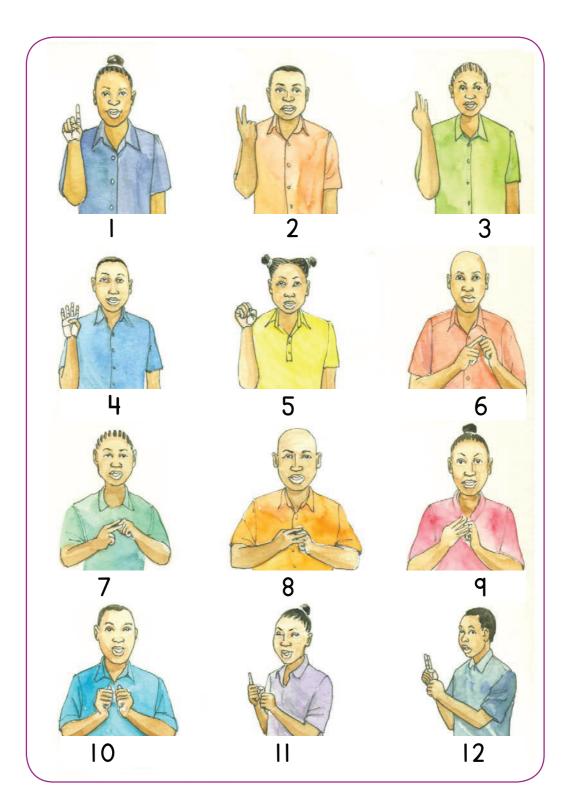
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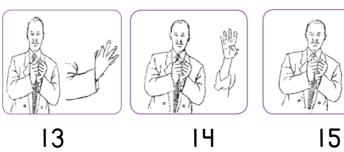


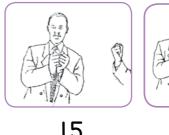
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## TERM I

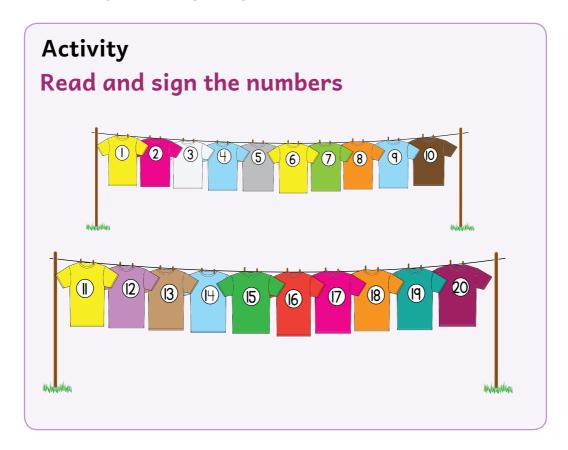
TERM I

## **NUMBERS**

#### NUMBER CONCEPT

Week | Lesson |

## Reading and signing numbers



#### Work to do

## Read and sign the numbers





















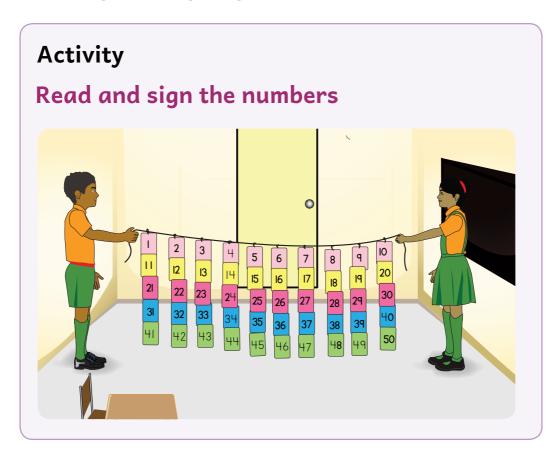








## Reading and signing numbers



#### Work to do

## Read and sign the numbers





27



























## Numbers and objects

**Activity** How many?

Number	Objects
I	
3	
7	41/41/41/41/41/41/41/
10	aggaggagg
14	
17	999999
20	

## Work to do

## How many?

Number	Objects
4	

## Numbers using objects

## **Activity** How many? Objects Number 23 27 40 49 **法法法法法法法法法法法法法法** 50

## Work to do

## How many?

Number	Objects
25	

## **NUMBERS**

#### WHOLE NUMBERS

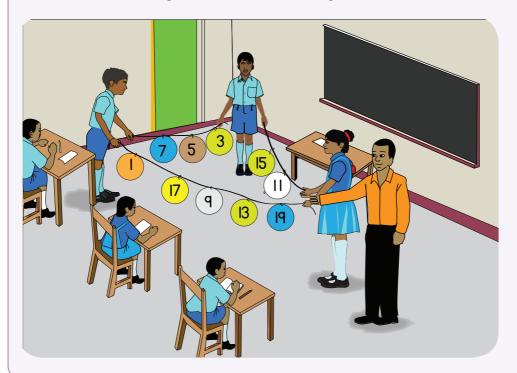
Week I Lesson 5

## Counting and signing

## **Activity**

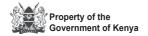
Count and sign forward by 2 from 1 to 19

Count and sign backwards by 2 from 19 to 1



#### Work to do

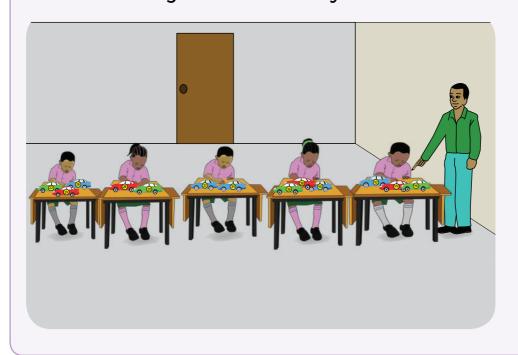
- 1 Count and sign forward by 2 from 2 to 20
- Count and sign backwards by 2 from 20 to 2



## Counting and signing

## **Activity**

Count and sign forward by 2 from 2 to 50 Count and sign backwards by 2 from 50 to 2



#### Work to do

- 1 Count and sign forward by 2 from 1 to 49
- 2 Count and sign backwards by 2 from 49 to 1

#### 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?

- $\bullet$  37 is  $\bullet$  tens and  $\bullet$  ones
- 2. 54 is \_\_\_\_\_ tens and \_\_\_\_ ones
- **3**. 61 is \_\_\_\_\_ tens and \_\_\_\_ ones
- **4**. 78 is \_\_\_\_\_ tens and \_\_\_\_ ones

## Reading, signing and writing numbers

## **Activity**

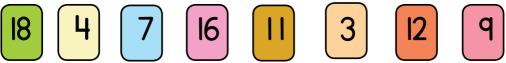
Read, sign and write the numbers in symbols





#### Work to do

Read, sign and write the numbers in symbols



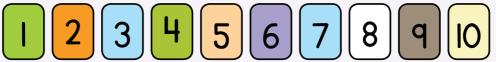
2 I5 6 20 I3 I9 I7 8

4

## Reading, signing and writing numbers

## **Activity**

Read, sign and write the numbers in symbols



21 22 23 24 25 26 27 28 29 30

31 32 33 34 35 36 37 38 39 40

4142 43 44 45 46 47 48 49 50

#### Work to do

Read, sign and write the numbers in symbols

Redu, sight and write the hambers in symbols

27 <del>1</del>9 <del>4</del>4 <del>7</del> <del>26</del> <del>39</del> <del>23</del> <del>11</del>

34 50 49 8 32 48 21 9

#### Numbers in words

## **Activity**

Read, sign, fingerspell and write the numbers in words

Number	Word
3	three
4	four
6	six
8	eight
Ю	ten

#### Work to do

Read, sign, fingerspell and write the numbers in words

Number	Word
2	
5	
7	seven
q	
10	

## **Number patterns**

#### **Activity 1**

Write the next number

Are the numbers decreasing or increasing? By how many?

Count forward by 2 to get the next number

## **Activity 2**

Write the next number

Are the numbers increasing or decreasing? By how many?

Count backwards by 2 to get the next number

#### Work to do

Write the next number

## **Number patterns**

#### **Activity 1**

Write the missing number

20, 25, 30, 35, 40, \_\_\_\_\_

Are the numbers decreasing or increasing? By how many?

Count forward by 5 to get the next number

20, 25, 30, 35, 40, <u>45</u>

#### **Activity 2**

Write the missing number

50, 45, 40, 35, 30, \_\_\_\_\_

Are the numbers increasing or decreasing? By how many?

Count backwards by 5 to get the next number

50, 45, 40, 35, 30, 25,

#### Work to do

Write the next number

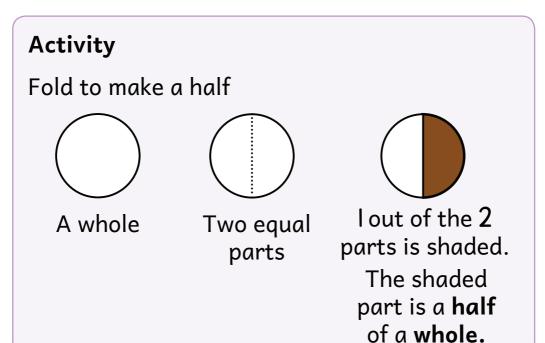
- **1**. 5, 10, 15, 20, 25, \_\_\_\_\_
- **2**. 15, 20, 25, 30, 35, \_\_\_\_\_
- **3**. 40, 35, 30, 25, 20, \_\_\_\_\_
- **4**. 45, 40, 35, 30, 25, \_\_\_\_\_
- **6**. 10, 15, 20, 25, 30, \_\_\_\_\_
- **3**0, 25, 20, 15, 10, \_\_\_\_\_

## **NUMBERS**

#### **FRACTIONS**

Week 3 Lesson 3

## A half as part of a whole

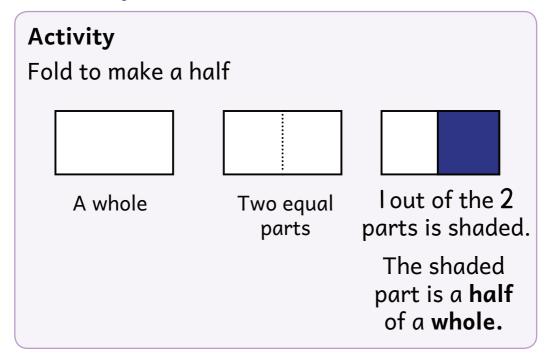


#### Work to do

Make a half using circular paper cut-outs



## A half as part of a whole



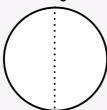
#### Work to do

Make a half using rectangular paper cut-outs

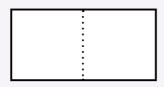
## A Half $(\frac{1}{2})$

## **Activity**

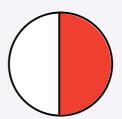
A half as a symbol



Two equal parts



Two equal parts



I out of the 2 parts is shaded.

This is  $\frac{1}{2}$ 



I out of the 2 parts is shaded .

This is  $\frac{1}{2}$ 

#### Work to do

Write  $\frac{1}{2}$  where a half is shaded.











Ε



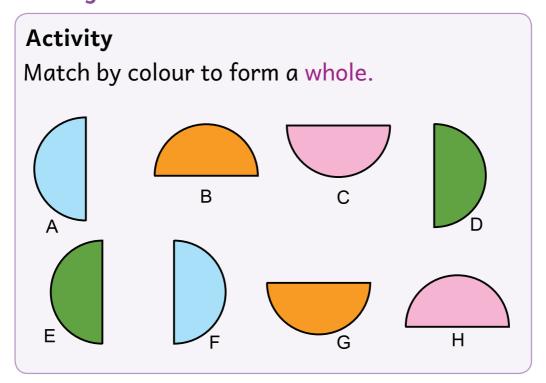






Ι

## Making a whole



#### Work to do

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

## **NUMBERS**

#### **ADDITION**

Week 4 Lesson 2

#### Add

## **Activity 1**

What is 23 + 5? Count on 5 steps from 23;

24, 25, 26, 27, 28

$$23 + 5 = 28$$

#### **Activity 2**

Work out 23 + 5 =

Write as 23

+ 5

Count on 5 steps from 23;

24, 25, 26, 27, <del>28</del>

#### Work to do

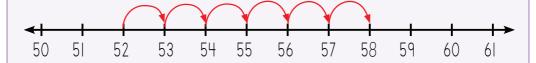
#### Add

#### Add

## **Activity**

What is 52 + 6?

Count on 6 steps from 52;



$$52 + 6 = 58$$

#### Work to do

#### Add

#### Add

## **Activity**

What is 86 + 3?

Add 6 ones to 3 ones to get 9 ones. Write 9 in ones place

Bring 8 down in tens place

Tens	Ones
8	6
+	3
8	q

$$86 + 3 = 89$$

#### Work to do

#### Add

### Add

# **Activity**

What is 3 + 2 + 4?

$$3 + 2 + 4 = 5 + 4$$

- Add 3 + 2 to get 5
- Then add 4 to 5 to get 9

### Work to do

Add

### Add

# **Activity**

What is 23 + 15?

- Add 3 ones to 5 ones to get 8 ones. 3 + 5 = 8
- Add 2 tens to | tens to get 3 tens. 2 + | = 3
- Add 8 ones to 3 tens to get 38.

$$23 + 15 = 38$$

#### Work to do

#### Add

### Add

# **Activity**

- Add ones as 4 + 3 to get 7ones
- Write 7 in ones place
- Add tens as 3 + 1 to get
  4 tens
- Write 4 in tens place

### Work to do

### Add

### **Number patterns**

### **Activity**

Work out the missing number

There are 3 steps from 6 to 9

Then add 3 to every given number to get the next number.

$$6 + 3 = 9$$

$$9 + 3 = 12$$

$$12 + 3 = 15$$

$$15 + 3 = 18$$

The missing number is 15

#### Work to do

# **NUMBERS**

### SUBTRACTION

Week 5 Lesson

#### **Subtract**

# **Activity**

What is 7 - 4?

Count 4 steps backwards from 7;

6, 5, 4, 3

7 - 4 = 3

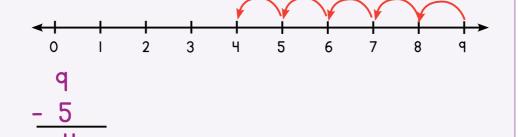
# **Activity**

Subtract

q

- 5

- On the number line start at 9.
- Move 5 steps backwards to stop at 4.



#### Work to do

#### Subtract

3. Ben had 5 pencils. He gave Peter 2 pencils. How many pencils was Ben left with?

# **Activity**

What is 13 - 8?

$$13 - 8 = 13 - \underline{3} - \underline{5}$$

$$13 - 8 = 5$$

### **Steps**

- Identify the ones in 13 and underline the ones as 13
- Break apart 8 as 3 and 5
- Subtract 3 from 13 to get 10
- Subtract 5 from 10 to get 5

#### Work to do

Subtract

# **Activity**

Subtract 58

- 5

Write as ones and tens

Tens	Ones
5	8
_	5
5	3

# **Steps**

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

### Work to do

**Subtract** 

- 26
   4
- 2. 3 9- 6
- 45
   − 2

- **4**. 78 5
- **5**. 87
- 3. Fatuma has 18 books. She gives 3 books to her brother. How many books is she left with?

### Add and subtract

# **Activity**

What is 9 - 2?

Write as 9 - 2 = Steps

• Count on from 2 up to 9 as 3, 4, 5, 6, 7, 8, 9.

• There are 7 steps.

The missing number is7

#### Work to do

0. 6 - 2 =

Write the missing number

witte the illissing hamb

# **Activity**

Write the missing number in -3 = 5

Write as  $3 + 5 = \boxed{ 3 + 5 = 8 }$ 

- The missing number is 8.
- Write 8 in the box

8 - 3 = 5

3, 5, 8 is a number family.

#### Work to do

Write the missing number

**1**. - 4 = 3

**4**. - 5 = 1

**6**. - 3 = 5

# **Activity**

Write the missing number in 8 - = 6

Write 8 - 6 =

$$8 - 6 = 2$$

- The missing number is 2.
- Write 2 in the box

2, 6, 8 is a number family.

### Work to do

- ⑤ Teacher Ann has 9 rubbers. She gives 4 rubbers to Tom. How many rubbers is she left with?
- O. A woman made 7 baskets. She sold 5 baskets. How many baskets was she left with?

### Number patterns

### **Activity**

Write the missing number in the pattern.

19, 16, 13

There are 3 steps from 19 to 16

Then subtract 3 from every given 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 the next number

**1**. 16, 15, 14, \_\_\_\_

**2**. 9, 7, 5, \_\_\_\_

**3**. 17, 15, 13, \_\_\_\_

**4**. 19, 17, 15, \_\_\_\_

**6**. 18, 16, 14 \_\_\_\_

**6**. 20, 15, 10, \_\_\_\_

# **NUMBERS**

### MULTIPLICATION

Week 7 Lesson

# Repeated addition

# **Activity 1**

Write as repeated addition



is

is



# **Activity 2**

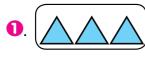
Write as repeated addition

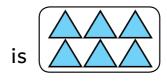


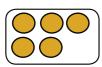


#### Work to do

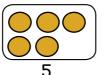
Write the missing number



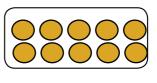




and



is





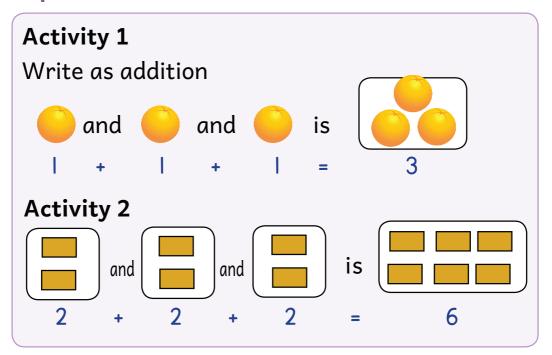
and



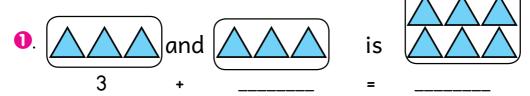
is

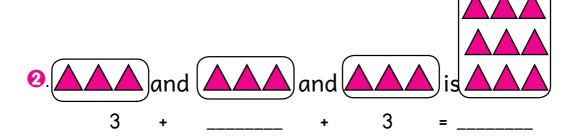


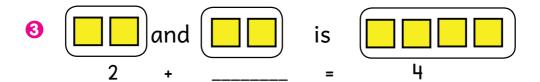
# Repeated addition

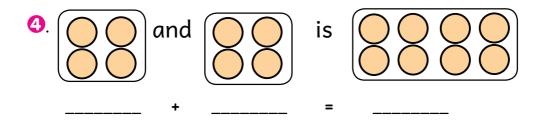


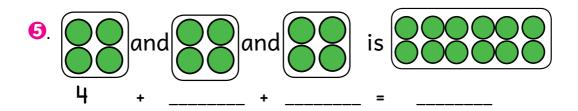
#### Work to do

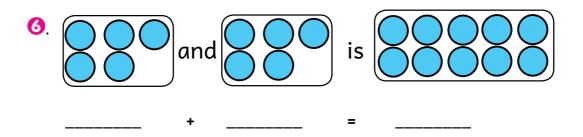






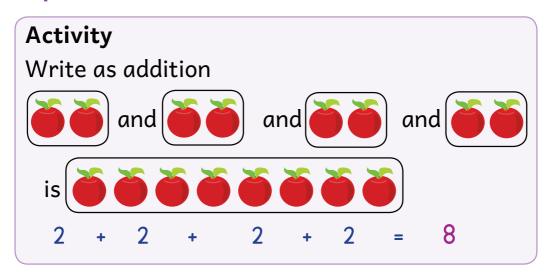




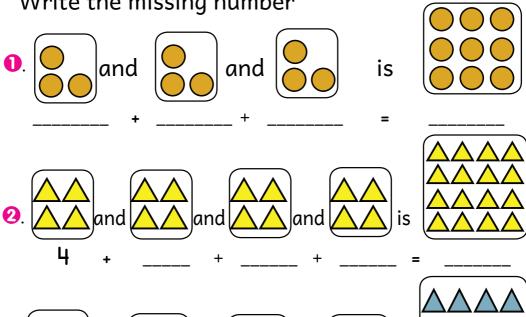


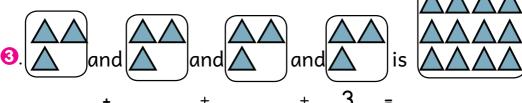
# MULTIPLICATION

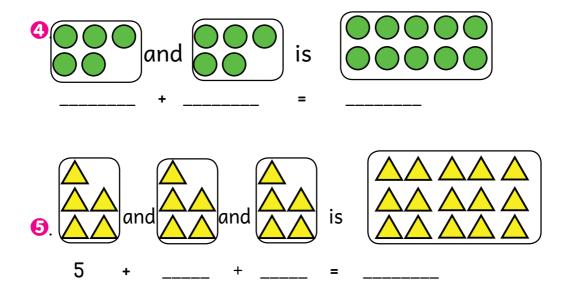
# Repeated addition



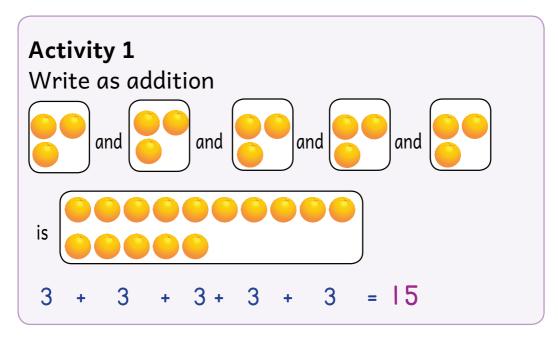
#### Work to do



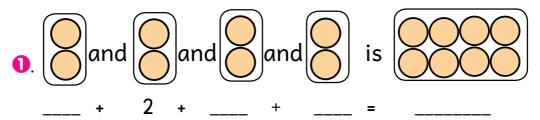


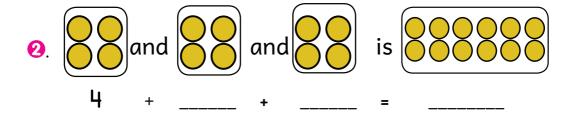


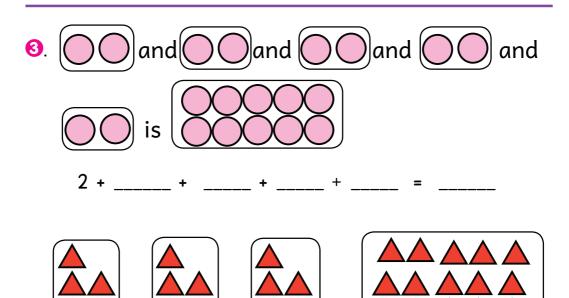
### Repeated addition



#### Work to do







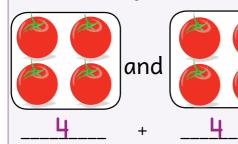
is

# Multiplication 'X' Sign

# **Activity 1**

Write using the 'X' sign





There are 2 groups each with 4 objects.

4 + 4 is the same as  $2 \times 4$ 

### **Activity 2**



and

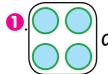




There are 3 groups each with 2 objects This is the same as  $3 \times 2$ .

#### Work to do

Write the sign 'X' or the missing number



and



and



is the same as

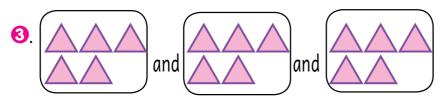
3 4



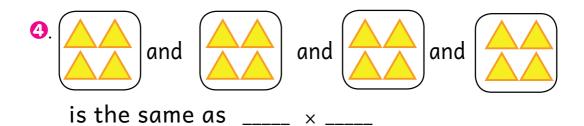
and

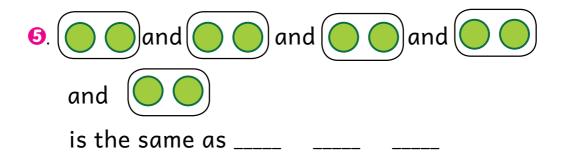


is the same as 2 \_\_\_\_\_ 3



is the same as 3 \_\_\_\_

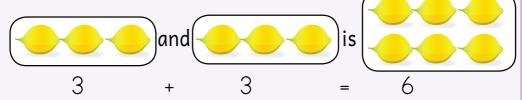




# Multiplication

# **Activity 1**

Write as multiplication



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

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

### **Activity 2**



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 as multiplication

$$0.4 + 4 + 4 = 12$$

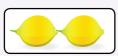
$$2. 5 + 5 = 10$$

$$4. 3 + 3 + 3 + 3 = 12$$

# Multiplying by 1

### **Activity 1**

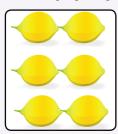
Multiply by 1



This is 1 group with 2 objects This is written as  $|x|^2 = 2$ 

### **Activity 2**

Multiply by 1



This is 1 group with 6 objects This is written as  $| \times 6 = 6$ 

### Work to do

Multiply

### **MEASUREMENT**

LENGTH

Week 8 Lesson 4

# Measuring length

# **Activity**

What is the length of the teacher's table?



The length of the teacher's table is \_\_\_\_\_ pencils

	Measure	Number of pencils
0	Length of the longer side of mathematics textbook	
2	Shorter side of teacher's table	
8	Shorter side of the door	
4	Length of the board	



# Measuring length

### Activity

What is the length of the classroom wall?



The shorter side of the classroom wall is \_\_\_ sticks

	Measure	Number of sticks
0	Length of chalkboard	
0	Longer side of classroom wall	
8	Length of classroom window	

# **MEASUREMENT**

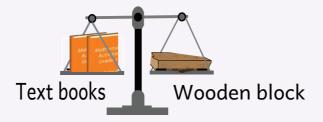
MASS

Week 9 Lesson1

### Measuring mass

### **Activity**

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



The mass of the wooden block is \_\_\_\_ text books

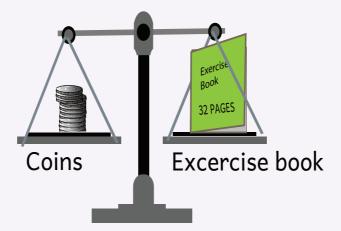
	Measure	Number of text books
0	Mass of a stone	
2	Mass of a school bag	
3	Mass of a packet of sand	



# **Measuring mass**

# **Activity**

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



The mass of the exercise book is \_\_\_\_ coins

	Measure	Number of coins
0	The mass of a potato	
2	The mass of a rubber	
3	The mass of a pencil	
4	The mass of a piece of chalk	

# **MEASUREMENT**

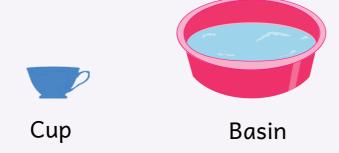
# CAPACITY

Week 9 Lesson 3

### Measuring capacity

# **Activity**

How many cups full of water will fill the basin?



\_\_\_\_ cups of water fill the basin

	How many cups of water will fill?	Number of cups
0	A jerrycan	
0	A jug	
8	A bucket	
4	A sufuria	

# **Measuring capacity**

# Activity

How many bottles full of water will fill the basin?



\_\_\_\_ bottles of water fill the basin

	How many bottles of water will fill?	Number of bottles
0	A bucket	
2	A jug	
8	A sufuria	
4	A jerrycan	

# **Measuring capacity**

# **Activity**

How many tins of water will fill the basin?



\_\_\_\_\_ tins fill the basin.

	How many tins of water will fill?	Number of tins
0	A jug	
2	A bucket	
3	A jerrycan	
4	A sufuria	

# **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, sign, fingerspell and write the months of the year in order.

# 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 an activity for each month.

Month	Activitiy	Month	Activity
January		July	
February		August	
March		September	
April		October	
May		November	
June		December	

# Days in a month

# **Activity**

How many days are in each month?

2018

January 2018						
S	M	Т	w	Т	F	S
	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			

- 3		distribution.	-	20		
S	M	T	W	T	F	S
11111				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			

March 2018							
S	M	T	W	T	F	S	
				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	

April 2018								
s	М	T	w	Т	F	S		
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		3					

May 2018						
S	М	Т	w	Т	F	s
		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	i i	

		Jun	e 2	018		
S	M	Т	w	Т	F	S
	2, 92				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

July 2018							
s	М	Т	w	Т	F	S	
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			c 2		

		ugu	ıst	201	8	
s	M	Т	w	Т	F	S
			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	

	Se	pter	nbe	r 20	18	
S	M	Т	w	Т	F	S
						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	8 8		1			

	0	cto	ber	201	8	
S	M	Т	W	Т	F	S
	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			

	No	ven	nbe	r 20	TR	
S	M	Т	w	Т	F	S
				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	

	De	cen	nbei	20	18	
s	M	T	w	T	F	s
						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					

- Which months have 28 days? \_\_\_\_\_
- 2. Which months have 30 days?
- 3. Which months have 31 days?

### Measuring time

### **Activity**

How much time?

Count the number of claps/drum beats as you sign and 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/drum beats to sing the first stanza of the national anthem.

The number of claps/drum beats is the time taken to sing.

#### Work to do

Sign as you sing the first stanza of the national anthem

Count how many?	Number
1. Claps	
2. Taps	
3. Drum beats	

### **MEASUREMENT**

### MONEY

Week 10 Lesson 5

### Coins and notes

# Activity 1 How much?



10 shilling coin

# Activity 2 How much?



50 shilling note.

#### Work to do

How much?

- 1 (20)
- \_\_\_ shillings.
- 2
  - \_\_\_\_ shillings
- 3
- \_\_\_ shilling.
- 40
- \_\_\_\_ shillings.

6



\_\_\_ shilling note.

### Coins and notes

# Activity 1 How much?



40 shilling coin.

# Activity 2 How much?



100 shilling note.

### Work to do

How much?





\_\_\_\_ shillings.





\_\_\_\_shillings.





\_\_\_shillings.

4



\_\_\_shillings.

6



\_\_\_\_shillings.

0



\_\_\_shilling.

# **Counting money**

# **Activity 1** How much money?







7 shillings.

# **Activity 2**

How much money?









26 shillings.

#### Work to do

How much?









\_\_\_\_shillings.

2







\_\_\_\_shillings.

3







\_\_\_\_shillings.

4









\_\_\_\_shillings.

6







\_\_\_\_shillings.

# **Counting money**

# **Activity 1**

How much money?





60 shillings.

# **Activity 2**

How much money?







71 shillings.

#### Work to do

How much?







\_\_\_\_shillings.







\_\_\_\_shillings.









\_\_\_\_shillings.











\_\_\_\_shillings.



# **GEOMERTY**

LINES

Week II Lesson

4

# Straight and curved lines

# Activity Identify straight and curved lines

#### Work to do

<b>0</b> . l	Name	places	with	curved	lines
				_	
				_	

# **GEOMETRY**

# SHAPES

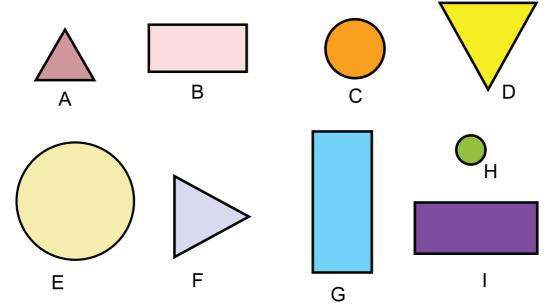
Week II Lesson 5

# **Triangles, Circles and Rectangles**

# **Activity** Which shape? C В F D J Н Triangles are A, B, and D Circles are E, G, H and I Rectangles are C, F and J

#### Work to do

Which shape?



- 1. Triangles are? \_\_\_\_\_ \_\_\_\_
- Circles are? \_\_\_\_\_
- **3**. Rectangles are ? \_\_\_\_\_

# I can do l

1. Read and sign the numbers

[6]

23

48

35

7

44

29

34

2

50

2. How many?

Number	Objects

3 Count and sign forward by 2 from 3 to 47

4 Count and sign backward by 2 from 48 to 2

5 23 is \_\_\_\_\_ tens and \_\_\_\_ ones

6 Fill in

Number	Objects	
6		

7 Fill in the missing number

3, 8, 13, 18, \_\_\_\_\_

8 Fill in the missing number 19, 17, 15, 13, \_\_\_\_\_



9 Which is a half?







**15** + 3 = **□** 

11. 82 + 7 =

20 + 27 =

13. 3 + 4 + 2 =  $\square$ 

14. Write the missig number 5, 8, II, \_\_\_\_, \_\_\_

20. Tom has 3 books. Jane has 5 books. How many books do they have altogether?

Write as addition



riangle riangle riangle and riangle riangle

is 0000

23.00 and 00 and 00 is 0000

24. and and and and is

25 Share 9 oranges among 3 pupils









Each pupil gets \_\_\_\_\_ oranges

32 Which is **shorter**, **longer** or **same as**?

В

С

D

A is \_\_\_\_\_ B

D is \_\_\_\_\_ C

B is \_\_\_\_\_ C

#### 33 Write heavier than, lighter than or same as



The book is \_\_\_\_\_ the ruler



The book is \_\_\_\_\_ the stone



The book is \_\_\_\_\_ the pencil



The book is \_\_\_\_\_ the orange

#### 34 Which holds more?



Basin

Tin

#### 35 Which holds less



Kettle

Cup

# 36 Which holds more, holds less, holds same as



fills



Jerrycan



fills



Sufuria

The jerrycan \_\_\_\_ sufuria

#### 37 Write the time







38 Write the time 6 o'clock in the digital clock face.

:	

39 Look at the calendar. Write the day of the week.

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

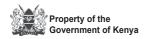
May 8 \_\_\_\_\_

May 12 \_\_\_\_\_

May 23 \_\_\_\_\_

May 31 \_\_\_\_\_

May 29 \_\_\_\_\_



#### 40 Write need or want

Item	Need or want
Dress	
Food	
Toy	
Ball	

#### 41 How much?



\_\_\_\_\_ five shilling coins

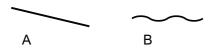


\_\_\_\_\_ ten shilling coins



\_\_\_\_\_ 50 shilling notes.

# 42. Which is a straight line?



# 43. Which is a triangle?



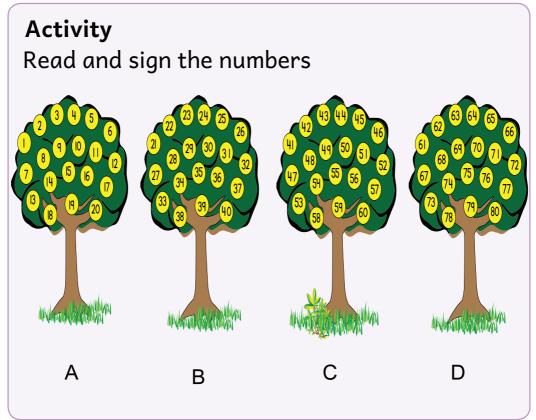
# TERM 2

# **NUMBERS**

# NUMBER CONCEPT

Week | Lesson |

# Reading and signing numbers



#### Work to do

#### Which tree has?

























# Numbers and objects

# Activity

Number	Objects
52	
6l	
75	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
80	

# Work to do

# How many?

	T
Number	Objects
57	

# **NUMBERS**

# WHOLE NUMBERS

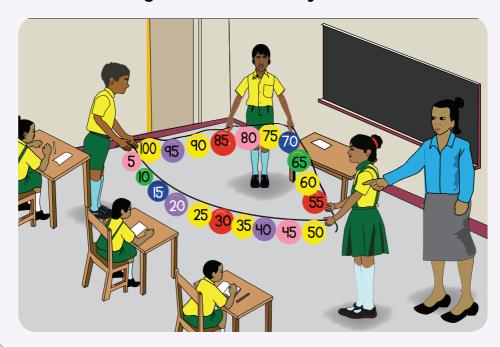
Week | Lesson 3

# Counting and signing

# **Activity**

Count and sign forward by 5 from 5 to 100

Count and sign backwards by 5 from 100 to 5

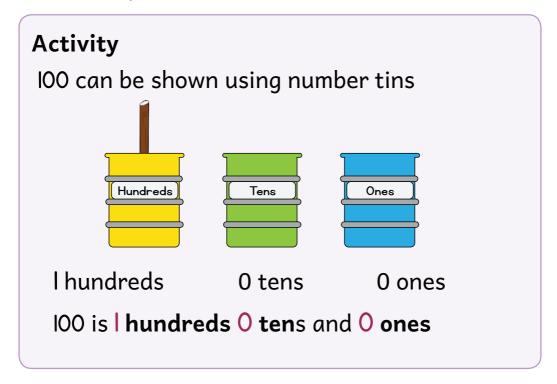


#### Work to do

- 1. Count and sign forward by 5 from 10 to 100.
- 2. Count and sign backwards by 5 from 100 to 10.



# Hundreds, Tens and Ones



#### Work to do

How many hundreds, tens and ones?

- 1. 23 is 1. hundreds 2. tens and 3. ones
- 2. 36 is \_\_\_\_ hundreds\_\_\_ tens and \_\_\_ ones
- 3. 77 is \_\_\_\_ hundreds\_\_\_ tens and \_\_\_ ones
- 4. 100 is \_\_\_\_ hundreds\_\_\_ tens and \_\_\_ ones

# Reading, signing and writing numbers

# **Activity**

Read, sign and write the numbers in symbols

1	2	3	4	5	6	7	8	q	Ю
Ш	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, sign and write the numbers in symbols

































# Reading, signing, fingerspelling and writing numbers

# **Activity**

Read, sign, fingerspell and write the numbers in words

Number	Word
q	nine
10	ten
11	eleven
12	twelve
13	thirteen
14	fourteen
15	fifteen

#### Work to do

Read, sign, fingerspell and write the numbers in words

- **0**. 9 \_\_\_\_\_
- **2**. ||\_\_\_\_\_
- **3**. 12\_\_\_\_\_
- **4**. 13\_\_\_\_\_
- **6**.14 \_\_\_\_\_
- **6**. 15\_\_\_\_\_

# Number patterns

# **Activity 1**

Write the missing number

Are the numbers decreasing or increasing? By how many?

Count and sign forward by 2 to get the next number

# **Activity 2**

Write the missing number

Are the numbers increasing or decreasing? By how many?

Count and sign backwards by 2 to get the next number

#### Work to do

Write the missing number

- **1**. 24, 26, 28, 30, \_\_\_\_, 34
- **2**. 42, 40, 38, 36, \_\_\_\_, 32
- **3**. 20, 18, 16, 14, \_\_\_\_\_, 10
- **4**. 17, 15, 13, 11, \_\_\_\_, 7
- **5**. 39, 41, 43, 45, \_\_\_\_\_, 49

# **Number patterns**

# **Activity 1**

Write the missing number

Are the numbers decreasing or increasing? By how many?

Count and sign forward by 5 to get the next number

# **Activity 2**

Write the missing number

Are the numbers increasing or decreasing? By how many?

Count and sign backwards by 5 to get the next number

#### Work to do

Write the missing number

0.	45.	50.	55.	60.	 70
•	10,	00,	00,	00,	 , 0

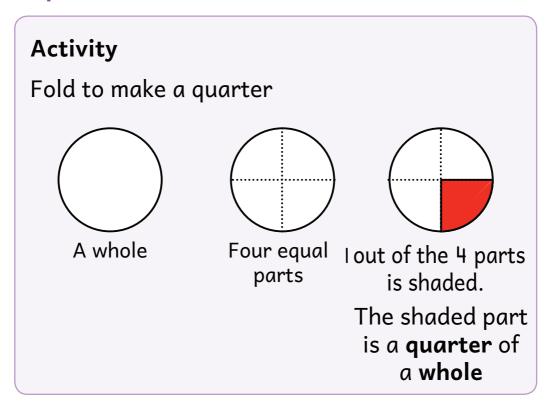
# **NUMBERS**

# FRACTIONS

Week 2 Lesson

4

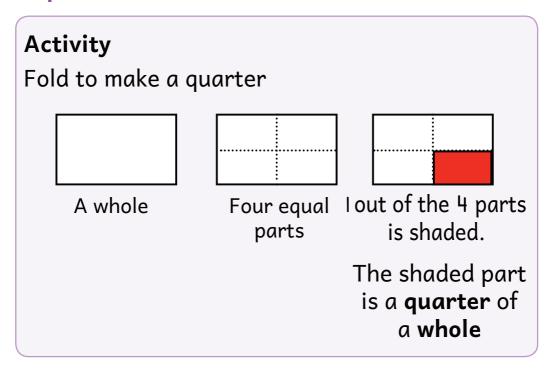
#### A quarter



#### Work to do

Make a quarter using circular paper cut-outs.

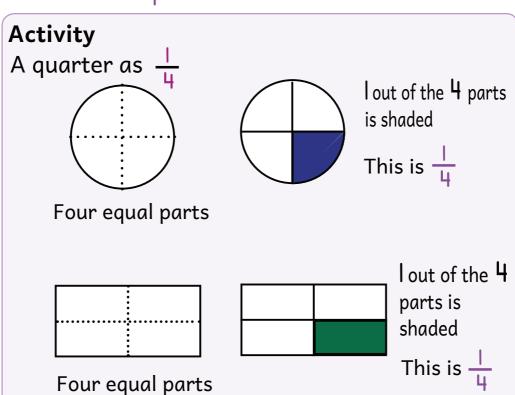
# A quarter



#### Work to do

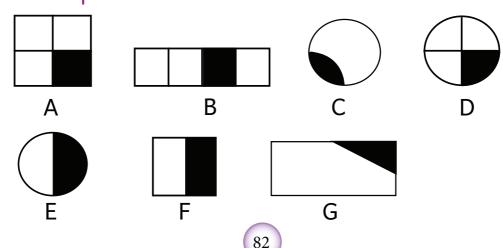
Make a quarter using rectangular paper cut-outs.

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

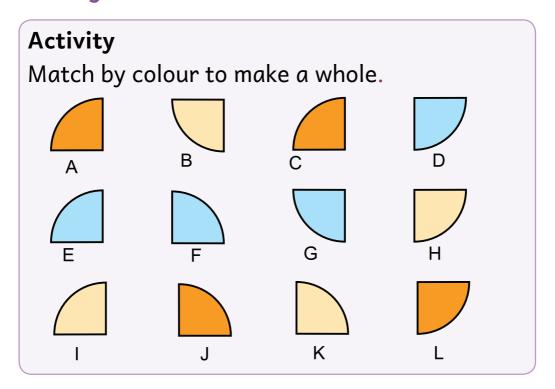


#### Work to do

Write  $\frac{1}{4}$  where a quarter is shaded



# Making a whole



#### Work to do

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

# **NUMBERS**

#### **ADDITION**

Week 3 Lesson 3

#### Add

# Activity

What is 14 + 8?

$$14 + 8 = 14 + 6 + 2$$
  
=  $20 + 2$ 

= 22

# Steps

- Underline the ones in the first number which is 14.
- Break apart 8 as 6 + 2
- Add 6 to 14 to get 20
- Add 2 to 20 to get 22

#### Work to do

# **Activity**

Add 28 + 9

# Steps

· Write as ones and tens

Tens	Ones
<b>U</b> <sub>2</sub>	8
+	9
3	7

- Add 8 ones to 9 ones to get 17 ones.
- Regroup by separating I7 ones as I tens and 7 ones
- Write 7 in the ones place
- Take the I tens to the tens place
- Add the **tens** as I + 2 = 3 **tens**
- Write 3 in the tens place

#### Work to do

# **Activity**

What is 68 + 5?

$$68+5 = 68 + 2 + 3$$

$$= 70 + 3$$

$$68+5 = 73$$

Steps

- Break apart 5 as 2 + 3.
- Add 2 to 68 to get 70
- Add 3 to 70 to get

73

#### Work to do

# **Activity 1**

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

# Steps

Write as

Tens	Ones
<u>(</u> ц	6
+	q
5	5

- Add 6 ones to 9 ones to get 15 ones.
- Regroup by separating I5
   ones as I tens and 5 ones.
- Write 5 in the ones place.
- Take the I tens to the tens place.
- Add tens as I + 4 = 5 tens.
- Write 5 in the tens place.

#### Work to do

- 4. Amina has 18 books. Jane has 7 books. How many books do they have altogether?
- 5. Peter has 8 fish. He bought 33 more fish. How many fish does he have altogether?

# **Activity**

What is 7 + 5 + 3?

$$7 + 3 = 10$$

$$10 + 5 = 15$$

$$7 + 5 + 3 = 15$$

# Steps

- Add 3 to 7 to get IO.
- Add 5 to 10 to get 15

#### Work to do

# **Activity**

What is 64 + 23?

# Steps

- Add 4 ones to 3 ones 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

- ⑤ A man had 76 sheep. He bought 22 more sheep. How many sheep does he have altogether?
- Grade two had 34 pupils in term one. In term two, 12 more pupils joined the class. How many pupils are there altogether?

# **Activity**

What is 18 + 27?

Steps

- Add 8 ones to 7 ones to get 15 ones.
- Regroup I5 by separating ones as | tens and 5 ones.
- Add tens as | + | + 2 = 4tens.
- Write 5 as ones and 4 as tens.

$$18 + 27 = 45$$

#### Work to do

- 6.A tailor had 28 shirts. He made 22 more shirts. How many shirts does he have altogether?
- 3. Grade two pupils planted 25 trees. Grade three pupils planted 18 trees. How many trees did they plant altogether?



# **Activity**

#### Write as Ones and Tens

Tens	Ones
<b>1</b> 3	1
+	q
5	0

#### Steps

- Add | ones to 9 ones to get | O ones.
- Regroup by separating 10 ones as I tens and 0 ones.
- Write 0 in the ones place.
- Take the I tens to the tens place.
- Add tens as | + 3 + | = 5 tens.
- Write 5 in the **tens** place.

#### Work to do

- Mary has 25 bananas. She buys 19 more bananas. How many bananas does she have altogether?
- **6** A farmer had 18 chicken. He bought 23 more chicken. How many chicken does he have altogether?

# Number patterns

# **Activity**

Write the missing number in the pattern

17, 19, 21, 23, \_\_\_\_, 27

There are 2 steps from 17 to 19.

Add 2 to every given number to get the next number

17 + 2 = 19

|9 + 2 = 2|

21 + 2 = 23

23 + 2 = 25

The missing number is 25

The pattern is 17, 19, 21, 23, <u>25</u>, 27

#### Work to do

Write the missing number

**1**. 35, 37, 39, 41 \_\_\_, 45

2. 25, 28, 31, 34, \_\_\_\_

**3**. 15, 20, 25, \_\_\_, 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

Week 5 Lesson 2

#### **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

- 6. A father had 40 cows. He gave his daughter 10 cows. How many cows was he left with?
- 3. A shopkeeper had 80 packets of milk. She sold 30 packets. How many packets of milk was she left with?

#### **Subtract**

# **Activity**

Work out 50



- First subtract the ones 0 - 0 = 0 ones
- Then the tens
- 5 tens take away 2 tens is 3 tens
   3 tens is 30

#### Work to do

- Salim had 50 fish. He sold 40 fish. How many fish was he left with?
- O. Lucy made 30 chapati. She sold 20 chapati. How many chapati were left?

### Add and Subtract

## **Activity**

Use addition and subtraction

$$7 + 8 = 15$$

With addition, we write

$$7 + 8 = 15$$
 and  $8 + 7 = 15$ 

With subtraction, we write

$$15 - 8 = 7$$
 and  $15 - 7 = 8$ 

The numbers 7, 8, 15 make a number family.

### **Subtract**

# **Activity**

Write the missing number

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

$$13 - 5 = 8$$

• The missing number is 8.

### Work to do

### **Subtract**

# **Activity**

Write the missing number

 To get the missing number add the two given numbers as

$$4 + 6 = 10$$

The missing number is 10

### Work to do

### **Subtract**

# **Activity**

Write the missing number

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

$$59 - 34 = 25$$

The missing number is 25

### Work to do

### **Number Patterns**

## **Activity**

Write the missing number in the pattern.

There are 2 steps from 39 to 37.

Therefore subtract 2 from every given 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

## **NUMBERS**

### MULTIPLICATION

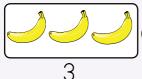
Week 6 Lesson

4

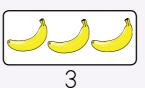
# Multiply

# **Activity**

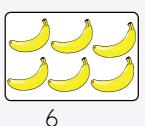
Multiply by 2



and (



is



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

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

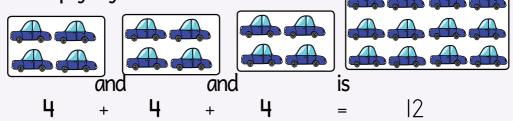
## Work to do

## Multiply

# Multiply

## **Activity**

Multiply by 3



There are 3 groups with 4 objects each, giving 12 objects

Write 4 + 4 + 4 = 12 as  $3 \times 4 = 12$ 

### Work to do

# Multiply

$$\mathbf{8}$$
.  $\mathbf{3}$  x  $\mathbf{9}$  =

# Multiply

# **Activity**

Multiply by 4



and



and



and



is



$$3 + 3 + 3 + 3 = 12$$

$$4 \times 3 = 12$$

## Work to do

# Multiply

## **NUMBERS**

### DIVISION

Week 7 | esson 2

## **Equal sharing**

## **Activity**

Share equally 6 bottle tops between 2 pupils.

Pick one at a time







Bottle tops

Each pupil gets 3 bottle tops

#### Work to do

How many each?

1 Share 8 oranges equally between 2 pupils.







Each pupil gets oranges

2 Share 6 seeds equally between 2 pupils.

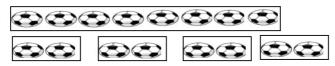






Each pupil gets seeds

3 Share 8 balls equally among 4 pupils



Each pupil gets balls

4 Share 15 small stones equally among 5 pupils













Each pupil gets stones

## **Equal grouping**

## **Activity 1**

How many groups?

Pick 3 items at a time





There are 4 groups

#### Work to do

How many groups?

• Pick 2 at a time



2 Pick 3 at a time



3 Pick 5 at a time



4 Pick 4 at a time



## Division +; sign



# **Activity 1**



Share equally





This is  $10 \div 2$ 

# **Activity 2**



Put into 3 equal groups

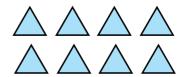






This is  $6 \div 3$ 

- 1 Share equally among 3 pupils 😂 😂 😂 😂 😂 🕏 This is 6 ÷ 3
- Put into 2 equal groups
  This is 8 \_\_\_\_\_ 2



Share equally between 2 pupils 4 \_\_\_\_\_ 2



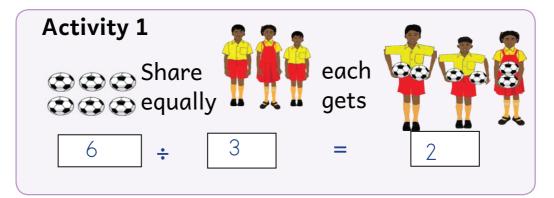
Put into 5 equal groups5



Share equally among 3 pupils÷ 3



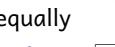
### **Division**



#### Work to do









each gets









each gets





🔞 🚻 Put into 2 equal groups, each group has? 🞹









Put into 5 equal groups,

Each group has\_\_







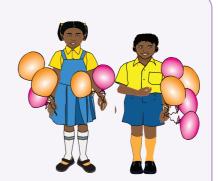
### Divide

# **Activity 1**

Divide by 2



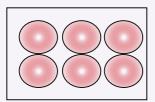
share equally

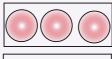


10 shared equally between 2 is 5

## **Activity 2**

Divide by 3







6 put into groups of 3 is 2

$$6 \div 3 = 2$$

### Work to do

Divide

# **MEASUREMENT**

LENGTH

Week 8 Lesson 2

# Measuring length

# **Activity**

Measure the length of the chalkboard



The length of the chalkboard is \_\_\_\_\_ sticks

	Numb	er of st	icks
What is the length of the?	Blue	White	Red
Longer side of classroom wall			
2 Shorter side of classroom wall			

# Measuring length

# **Activity**

Measure the classroom wall using a l-metre stick



The classroom wall is \_\_\_\_ I-metre sticks.

The classroom wall is \_\_\_\_ metres.

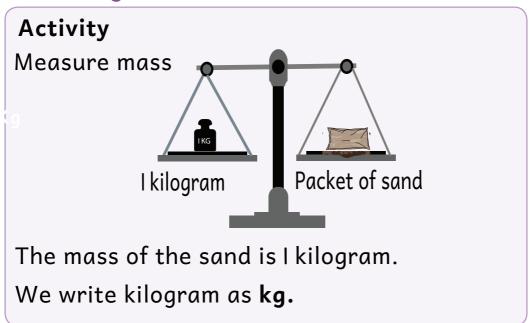
Measure	Number of I-metre sticks	Length in metres
• The Longer side of the classroom wall		
2 The shorter side of the classroom wall		
<b>3</b> The teacher's table		

# **MEASUREMENT**

MASS

Week 8 Lesson 4

# **Measuring mass**



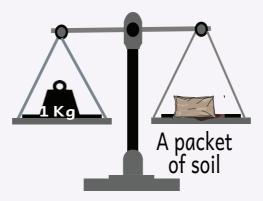
### Work to do

Write things measured in kilograms.

# | kilogram mass

# **Activity**

Use a beam balance, make a I - kg mass of soil.



### Work to do

Using a beam balance, make I kg mass of:

- Seeds
- 2 Stones
- Sand

### TERM 2

# **MEASUREMENT**

## CAPACITY

Week 9

Lesson I

# Measuring capacity

# **Activity**

How many jugs full of water will fill the basin?



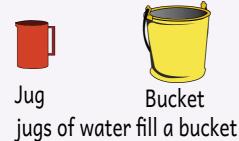
\_\_\_\_jugs full of water fill the basin.

How many jugs full of water will fill ?	Number of jugs
A bucket	
2 A jerrycan	
3 A sufuria	

# Measuring capacity

## **Activity 1**

How many jugs full of water will fill the bucket?

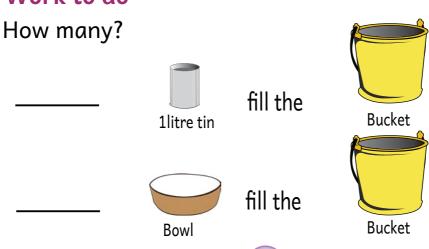


## **Activity 2**

How many tins full of water will fill the bucket?



### Work to do



114

# **Measuring capacity**

# Activity

How many litres does the pot hold?



I - litre tin



Pot

The pot is filled by \_\_\_\_\_ I litre tins.

The pot is \_\_\_\_ litres

How many will fill?	Number of I-litre tins	Capacity in litres

TERM 2

## **MEASUREMENT**

TIME

Week 9 Lesson 4

## Measuring time

## **Activity**

How much time?

Count and sign the number of nods

### 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 \_\_\_\_ nods to sing the first stanza of the National Anthem

#### Work to do

Sign as you sing the first stanza of the National Anthem.

Count how many	Number
1 Foot thumps	
2 Nods	
3 Drum beats	



## Measuring time

## **Activity**

Count and sign the number of nods

## **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\_\_\_\_ nods to sing the first stanza of the National Anthem.

### Work to do

Sign and sing a familiar song and count the number of nods.

### 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 numbers 1 to 12.

#### Work to do

Draw a Clock face.

Show the hour hand and minute hand

Show the numbers 1 to 12

# Reading, signing and telling time

# **Activity** 1

Read and sign the time

# **Activity** 2

Read and sign the time



The time is 6 o'clock

The time is 3 o'clock

## Work to do

Read and sign the time

	Clock	Time
0	11 12 1 10 2 9 3 8 4	
2	11 12 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3	11 12 1 2 9 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	

# **MEASUREMENT**

# MONEY

Week 10 Lesson 3

# Buying and selling

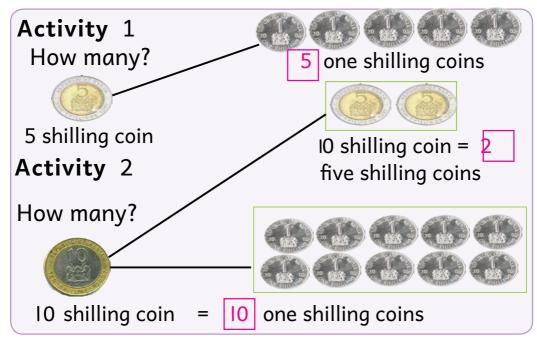


## Work to do

### How much?

Item	Price
1 Milk	
2 Exercise book	
3 Bread	
Pencil	

# Change



## Work to do

How many?



\_\_\_\_\_five shilling coins



\_\_\_\_twenty shilling coins

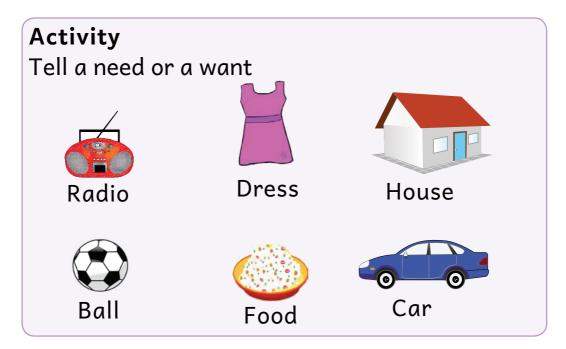


\_\_\_\_ten shilling coins



\_\_\_\_five shilling coins

## **Needs and wants**



## Work to do

### Write need or want

Item	Need or want
Radio	
Ball	
6 Food	
4 Car	
6 House	
<b>3</b> Dress	

## Spending and saving

## **Activity**

How much saving?

Susan



Sh. 55

Job



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.

- 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 home. 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



### Work to do

Use plasticine or clay to make straight lines

# **Drawing straight lines**



## Work to do

Draw straight lines

TERM 2

# **GEOMETRY**

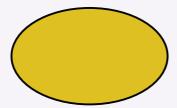
# SHAPES

Week | Lesson L

## **Ovals**

# **Activity**

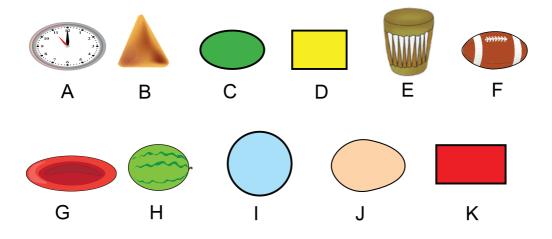
Sign and name the shape.



This is an Oval.

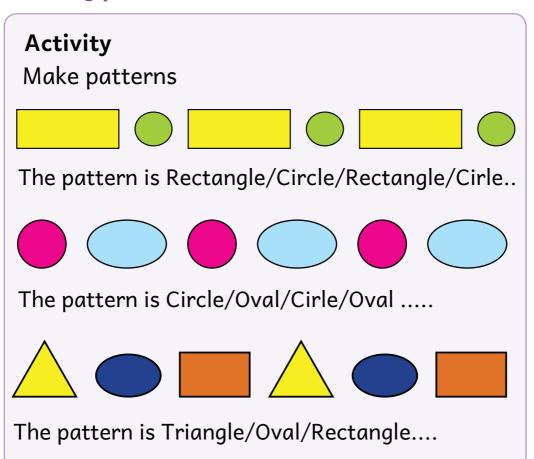
## Work to do

Which is oval?



Oval shapes are \_\_\_\_ \_\_ \_\_\_

## **Making patterns**



### Work to do

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

# I can do 2

1. Read and sign the numbers

13 *[*6

6

31

58

[17]

67

46

25

2. How many?

Number	Objects

- 3 Count and sign forward by 5 from 41 to 99
- 4 Count and sign backwards by 5 from 100 to 5
- 5 100 is \_\_\_\_ hundreds \_\_\_\_ tens and \_\_\_ ones

6 Fill in

Number	Objects
II	
	00000000

7 Fill in the missing number

64, 69, 74, 79, \_\_\_\_\_

8 Fill in the missing number

83, 81, 79, 77, \_\_\_\_\_

9 Which is a quarter?



В



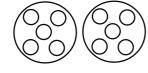


С

- 14. Daniel planted 19 flowers last week. He planted 24 flowers this week. How many flowers has he planted altogether?
- 15 Write the missing numbers 13, 17, 21, 25, \_\_\_\_\_, \_\_\_\_
- 16. 70 50 =
- 17. Complete the number family

12 - 4 = 
$$\square$$

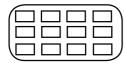
- 20. Fill in the missing numbers in the pattern 70, 68, 66, \_\_\_, \_\_\_
- 21 (00) (00) = 3 x 5 = \_\_\_\_
- 22 OO OO = 3 x 3 = \_\_\_\_



$$)$$
  $\bigcirc$ 

$$\bigcirc$$

# 26 Share 12 books among 3 pupils









Each pupil gets \_\_\_\_\_ books

$$\rightarrow 5 = 3$$

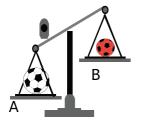
## 27 Which is shorter than, longer than or same as?

A is \_\_\_\_\_ B

D is \_\_\_\_\_ A

B is \_\_\_\_\_ C

## 28 Write heavier than, lighter than or same as



Ball A is \_\_\_\_\_ ball B



The cup is \_\_\_\_\_ the stone



The ruler is \_\_\_\_\_ the book



The pencil is \_\_\_\_\_ the stone

#### 29 Look at the calendar. Write the day of the week

SEPTEMBER 2018							
Sunday	Monday Tuesday Wednesday Thursday Friday Satur						
						I	
2	3	4	5	6	7	8	
q	10	П	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30							

September 9 \_\_\_\_\_

September 14 \_\_\_\_\_

September 20 \_\_\_\_\_

September 24 \_\_\_\_\_

September 29 \_\_\_\_\_

30 Write need or want

Item	Need or want
Water	
Food	
Phone	
Bicycle	

31 Hov	w m	any?
--------	-----	------



\_\_\_\_one shilling coins

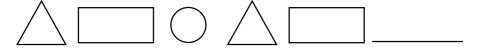


\_\_\_\_\_ five shilling coins



\_\_\_\_\_ 50 shilling notes.

- 32 Draw a straight line
- 33 Complete the pattern



# TERM 3

## **NUMBERS**

#### NUMBER CONCEPT

Week | Lesson I

## Reading and signing numbers

## **Activity**

#### Read the numbers

- 1	2	3	4	5	6	7	8	q	10
- 11	12	13	4	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 and sign the numbers



82

94

87

31

76

100

93

85

۹۱

47

58

29

66

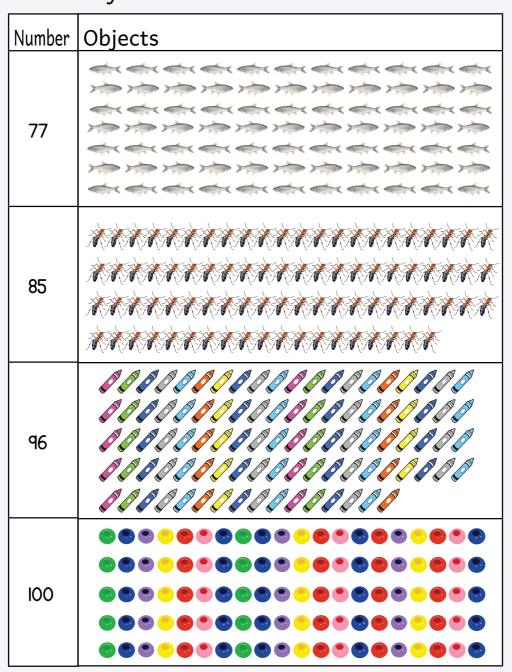
15

6

#### Numbers using objects

## **Activity**

How many?



## Work to do

## How many?

Number	Objects
68	

## **NUMBERS**

#### WHOLE NUMBERS

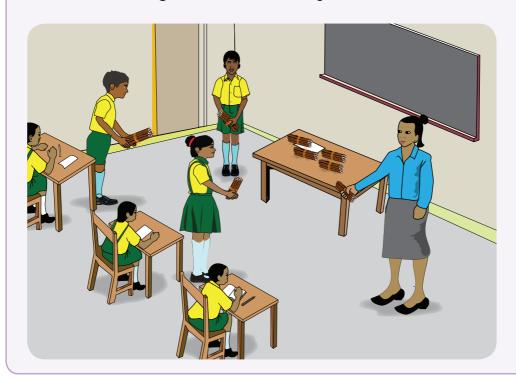
Week | Lesson 3

#### **Counting and signing**

#### **Activity**

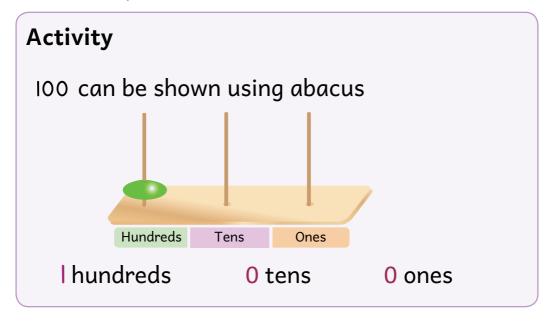
Count and sign forward by 10 from 10 to 100

Count and sign backwards by 10 from 100 to 10



- 1. Count and sign forward by 10 from II to 99.
- 2. Count and sign backwards by 10 from 99 to 11.

#### **Hundreds, Tens and Ones**



#### Work to do

How many hundreds, tens and ones?

- 0.58 is 0 hundreds 5 tens 8 ones
- 2. 81 is \_\_\_\_ hundreds \_\_\_\_ tens \_\_\_ ones
- 3. 97 is \_\_\_\_ hundreds\_\_\_ tens \_\_\_ ones
- 4. 100 is \_\_\_\_ hundreds\_\_\_\_ tens \_\_\_ ones

## Reading, signing and writing numbers

## **Activity**

Read, sign and write the numbers in symbols

- 1	2	3	Ŧ	5	6	7	8	q	Ю
-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	4	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, sign and write the numbers in symbols





31

5<sup>L</sup>

88

47

100

51

91



85

24

19

76

50

43

## Reading, signing, fingerspelling and writing numbers

## **Activity**

Read, sign, fingerspell and write the numbers in words

Number	Word
16	sixteen
17	seventeen
18	eighteen
Iq	nineteen
20	twenty

#### Work to do

Write the numbers in symbols or words.

- **0**.\_\_\_\_\_sixteen
- **2**. 17\_\_\_\_\_

**3**.18 \_\_\_\_\_

- **4**. 19\_\_\_\_\_
- **6**.\_\_\_\_\_twenty
- **6**. 15\_\_\_\_\_

## **Number patterns**

#### **Activity 1**

Write the missing number

77, 79, 81, 83, \_\_\_\_, 87

Are the numbers decreasing or increasing?

By how many?

Count forward by 2 to get the next number

77, 79, 81, 83, <u>85,</u> 87

#### **Activity 2**

Write the missing number

92, 90, 88, 86, \_\_\_\_, 82

Are the numbers increasing or decreasing? By how many?

Count backwards by 2 to get the next number

92, 90, 88, 86, <u>84</u>, 82

#### Work to do

Write the missing number

- **1**. 50, 52, 54, 56, \_\_\_\_, 60
- **2**. 69, 71, 73, 75, \_\_\_\_, 79
- **3**. 100, 98, 96, 94, \_\_\_\_, 90
- **4**. 89, 87, 85, 83, \_\_\_\_, 81
- **6**. 59, 61, 63, 65, \_\_\_\_, 69
- **6**. 48, 46, 44, 42, \_\_\_\_, 38

## **Number patterns**

#### **Activity 1**

Write the missing number

20, 30, 40, 50,\_\_\_, 70,

Are the numbers decreasing or increasing? By how many?

Count forward by 10 to get the next number

20, 30, 40, 50, <u>60</u>, 70,

## **Activity 2**

Write the missing number

80, 70, 60, 50, \_\_\_\_, 30

Are the numbers increasing or decreasing? By how many?

Count backwards by 10 to get the next number

80, 70, 60, 50, <u>40</u>, 30

#### Work to do

Write the missing number

- **1**. 40, 50, 60, 70, \_\_\_, 90
- 2. 100, 90, 80, 70, \_\_\_\_, 50
- **3**. 15, 25, 35, 45, \_\_\_, 65
- **4**. 95, 85, 75, 65, \_\_\_, 45
- **6**. 10, 20, 30, 40, \_\_\_\_, 60
- **3**. 70, 60, 50, 40, \_\_\_, 20

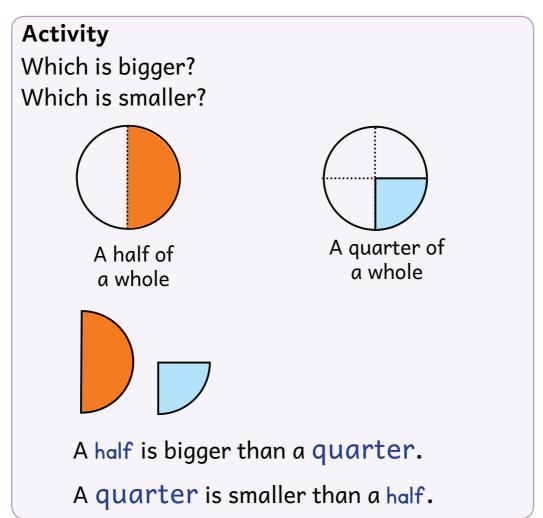
#### **NUMBERS**

#### **FRACTIONS**

Week 2 Lesson

#### 4

#### A half and a quarter

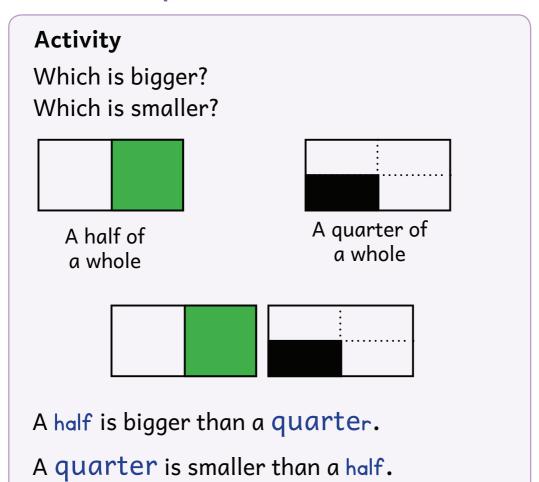


#### Work to do

Using circular paper cut-outs, fold a half and a quarter.

- Which is bigger?
- 2. Which is smaller?

## A half and a quarter

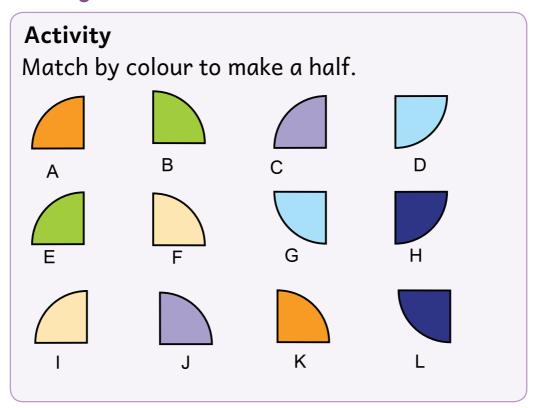


#### Work to do

Using rectangular paper cut-outs, fold a half and a quarter.

- Which is bigger?
- Which is smaller?

## Making a half



#### Work to do

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

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

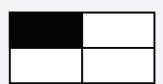
## **Activity**

Write  $\frac{1}{2}$  or  $\frac{1}{4}$ 

a



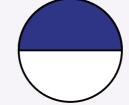
C



a is  $\frac{1}{4}$ 

c is  $\frac{1}{\mu}$ 

b



d



**b** is  $\frac{1}{2}$ 

d is  $\frac{1}{2}$ 

#### Work to do

Write  $\frac{1}{2}$  or  $\frac{1}{4}$ 









## **NUMBERS**

#### **ADDITION**

Week 3 Lesson 3

#### Add

## **Activity**

Add 56

Write as **tens** and **ones** 

Tens	Ones
5	6
+ 4	3
q	q

#### **Steps**

- Add 6 ones to 3 ones to get 9 ones.
- Write 9 in ones place.
- Add 5 tens to 4 tens to get 9 tens.
- Write 9 in tens place.

#### Work to do

#### Add

**6**. 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?

#### **Steps**

- Add 8 ones to 5 ones to get I3 ones.
- Regroup by separating I3 ones as I tens and 3 ones.
- Write 3 as ones.
- Add the **tens** as I + 3 + 2 = 6 **tens**.
- Write 6 as **tens**. 38 + 25 = 63

#### Work to do

#### Add

- 6. Chalo planted 71 flowers on Monday. On Tuesday he planted 28 more flowers. How many flowers did he plant altogether?
- On Grade two class has 56 girls and 37 boys. How many pupils are there altogether?

#### Add

## **Activity**

Add

69

## Write as **Ones** and **Tens**

Tens	Ones
6	9
+ 2	4
Р	3

#### **Steps**

- Add 9 ones to 4 ones to get 13 ones.
- Regroup by separating I3
   ones as I ten and 3 ones.
- Write 3 ones in the ones place.
- Add tens as I + 6 + 2 = 9
   tens.
- Write 9 in the **tens** place.

#### Work to do

#### Add

- 6. My mother had 53 bags of maize. She bought 37 more bags of maize. How many bags of maize does she have altogether?
- Our school has 37 tables. It was given 24 more tables. How many tables are in the school altogether?

## **Number patterns**

## **Activity**

Write the missing number in the pattern

There are 10 steps from 44 to 54

Add 10 to every given number to get the next number

$$44 + 10 = 54$$

$$54 + 10 = 64$$

$$64 + 10 = 74$$

$$74 + 10 = 84$$

The missing number is 84

The pattern is 44, 54, 64, 74, <u>84</u>

#### Work to do

Write the missing number

- **1**. 35, 40, 45, \_\_\_, 55
- **2**. 52, 56, 60, \_\_\_,
- **3**. 87, 90, 93, 96 \_\_\_,
- **4**. 73, 75, 77, 79, \_\_\_, 83
- **6**. Agnesbought15tomatoesonMonday.Shebought20tomatoes on Tuesday. She bought 25 tomatoes on Wednesday. Using the pattern, how many tomatoes will she buy on Thursday?
- 3. Sam read 6 pages of a story book on Sunday. He read 9 pages on Monday. He read 12 pages on Tuesday. Using the pattern, how many pages will he read on Wednesday?

## **NUMBERS**

## SUBTRACTION

Week 4 Lesson 2

#### **Subtract**

## **Activity**

What is 37 - 14?

**Steps** 

- Subtract 4 ones from 7 ones to get 3 ones.
- Write 3 as ones.
- Subtract | ten from 3 tens
   to get 2 tens.

• Write 2 as tens.

#### Work to do

#### Subtract

#### **Subtract**

## **Activity**

Write as **Ones** and **Tens** 

Subtract **57** - **26** 

Tens	Ones
5	7
- 2	6
3	

#### **Steps**

- 7 ones 6 ones = | ones.
- Write I in **ones** place.
- Subtract the **tens** as 5-2 to get 3 **tens**.
- Write 3 on tens place.

#### Work to do

Subtract

#### Add and Subtract

## **Activity**

Use addition and subtraction

$$25 + 34 = 59$$
 and  $34 + 25 = 59$ 

With subtraction, we write

$$59 - 25 = 34$$
 and  $59 - 34 = 25$ 

The numbers 25, 34 and 59 make a number family

#### Work to do

Write the Missing numbers

#### **Subtract**

## **Activity**

Write the missing number

 To get the missing number, add 35 and 42 to get 77.

• The missing number is 77

#### Work to do

Write the Missing numbers

#### **Number Patterns**

## **Activity**

Write the missing number.

There are 3 steps from 79 to 76.

Subtract 3 from every given number to get the

next number as 
$$79 - 3 = 76$$

$$76 - 3 = 73$$

$$73 - 3 = 70$$

The next number is 70

The pattern is 79, 76, 73, <u>70</u>

#### Work to do

Write the next number

- **1**. 59, 57, 55, 53 \_\_\_\_
- **2**. 60, 55, 50, 45 \_\_\_\_, \_\_\_
- **3**. 90, 80, 70, 60, \_\_\_\_, \_\_\_
- 4. 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?

## **NUMBERS**

#### MULTIPLICATION

Week 5 Lesson 2

## Multiply

## **Activity**

Multiply by 5















There are 5 groups.

Each group has 3 objects.

There are 15 objects altogether.

Write 3 + 3 + 3 + 3 + 3 = 15 as  $5 \times 3 = 15$ 

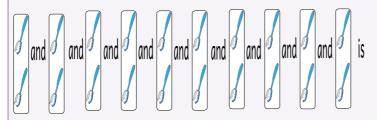
#### Work to do

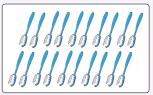
## Multiply

## Multiply

## **Activity**

Multiply by 10





There are 10 groups.

Each group has 2 objects.

There are 20 objects altogether.

as  $10 \times 2 = 20$ 

#### Work to do

## Multiply

## **NUMBERS**

## DIVISION

Week 5 Lesson 4

#### Divide

## **Activity 1**

Divide



#### Work to do

Divide

#### Divide

## **Activity 1**

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



Share equally







Each pupil gets 4 oranges

$$12 \div 3 = 4$$

#### Work to do

 $0 18 \div 3 =$ 

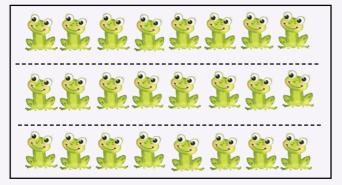
2 8 ÷ 4 =

- Ruth shared 15 bananas equally among 3 children. How many bananas did each child get?
- A pupil put 12 exercise books in equal groups of 4. How many groups are there?

#### Divide

## **Activity 1**

Divide



- The teacher shared 15 exercise books equally among 3 pupils. How many did each pupil get?
- O A boy has 25 marbles. He wants to share equally among 5 friends. How many does each get?

TERM 3

## **MEASUREMENT**

LENGTH

Week 6 Lesson 2

#### Measuring length

#### **Activity**

Make a I-metre stick using a metre rule



Measure the length of the chalkboard using a I - metre stick.

The length of the chalkboard is \_\_\_\_ I - metre sticks.

The length of the chalkboard is \_\_\_\_ metres

#### Work to do

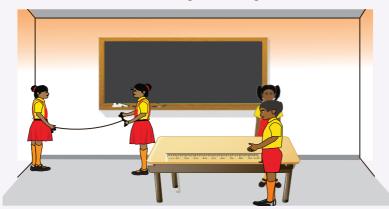
Use your 1-metre stick to measure,

Use a 1-metre stick to measure;	Number of 1-metre sticks	Metres
<ul><li>Length of classroom window</li></ul>		
2 Length of the longer side of the classroom		

#### 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 \_\_\_\_I - metre strings.

The length of the longer side of the classroom is \_\_\_\_ metres.

Use a I-metre string to measure;	Number of I-metre strings	Metres
<ul><li>Length of the teacher's table</li></ul>		
2 Length of the shorter side of the classroom		

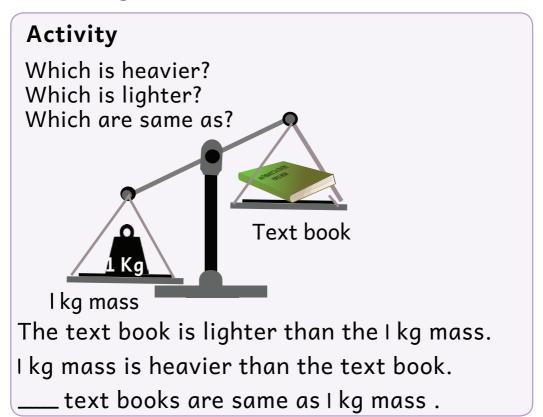
TERM 3

#### **MEASUREMENT**

MASS

Week 6 Lesson 4

#### **Measuring mass**



#### Work to do

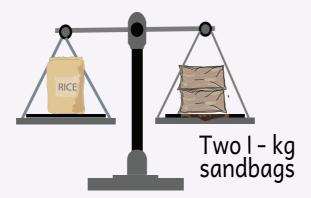
Write heavier than, lighter than or same as;

- 1. A shoe is \_\_\_\_\_ I kg mass.
- 2. I kg mass is \_\_\_\_\_ a school bag.
- 3. A text book is \_\_\_\_\_ I kg mass.
- 4. I kg mass is \_\_\_\_\_ a box of chalk.

#### **Measuring mass**

## **Activity**

Use I kg sand bag to measure



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

The mass of rice is 2 kgs.

Use I kg sandbag to measure	Mass in kg
• Potatoes	
A box of chalk	
8 Bean seeds	

#### TERM3

## **MEASUREMENT**

## CAPACITY

Week 7 Lesson I

## 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 \_\_\_\_ litres.

Use I - litre tin to fill	Number of I - litre tins	Number of litres

## **Measuring capacity**

## **Activity**

How many litres can the jerrycan hold?



Jerrycan



l -Litre tin

\_\_\_l-litre tins fill a jerrycan.

The jerrycan is \_\_\_\_litres.

Use I - litre tin to fill	Number of I -litre tins	Number of litres

# **MEASUREMENT**

TIME

Week 7 Lesson 3

## Reading, signing and telling time

# **Activity**

What is the time?



6:00

The time is 11 o'clock The time is 6 o'clock

#### Work to do

What is the time?

0

3





o'clock

o'clock

4



o'clock

12:00

o'clock

6



0



o'clock

o'clock

# Reading, signing and telling time

# **Activity**

What is the time?



The time is I o'clock

### Work to do

### Write the time

Clock		Time
0	11 12 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2	11 12 1 10 2 9 3 8 4	
3	11 12 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

# **MEASUREMENT**

### MONEY

Week 7 Lesson 5

#### Goods and services

## **Activity**

Write good or service











Shoe making

Cup

Hair cutting

Exercise book

Hair plaiting

Service are ; shoe making, hair cutting and hair plaiting.

Goods are; cup, exercise book and handkerchief.

### Work to do

Write good or service

- 1. Tailor
- 2. Pencil
- 3. Rubber
- 4. Cook
- 6. Transport
- 3. Bread

## Change

## **Activity 1**

How many?



is







50 shilling note is two 20 shilling coins and one 10 shilling coin.

## **Activity 2**



is









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

### Work to do

How many?



is \_\_\_\_ 50 shilling notes.



is \_\_\_\_ 50 shilling note, \_\_\_\_ 10 shilling coins.



is \_\_\_\_ 10 shilling coins, two 5 shilling coins.



is \_\_\_\_ 20 shilling coins.

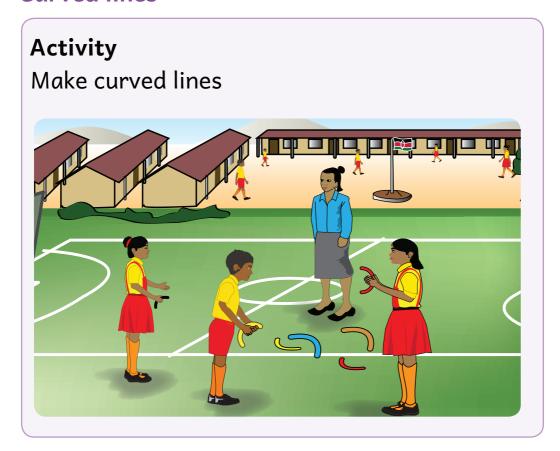
TERM 3

# **GEOMETRY**

LINES

Week 8 Lesson 2

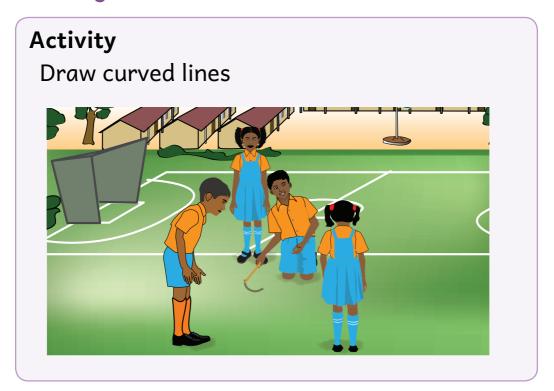
# **Curved lines**



### Work to do

Use plasticine or clay to make curved lines

# **Drawing curved lines**



### Work to do

- 1. Write letters of the alphabet with curved formation
- 2. Write numbers with curved formation

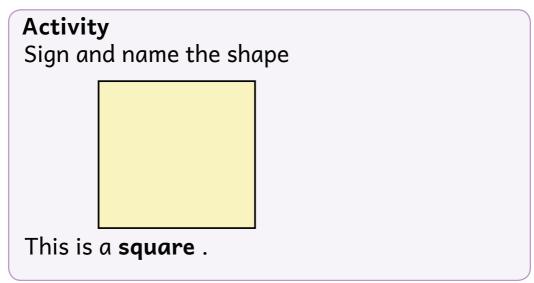
TERM 3

# **GEOMETRY**

### SHAPES

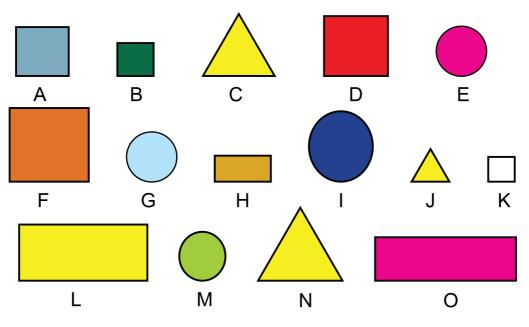
Week 8 Lesson 1

## Squares



## Work to do

Which are squares?



Squares are \_\_\_\_ \_\_\_ \_\_\_ \_\_\_\_

## **Making patterns**

## **Activity**

Make patterns













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













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



















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

#### Work to do

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

# I can do 3

1. Read and sign the numbers









32



63

7

53

2. How many?

Number	Objects
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

- 3 Count and sign forward by 10 from II to 99
- 4 Count and sign backwards by 10 from 100 to 10
- 5 84 is \_\_\_\_ hundreds \_\_\_\_ tens \_\_\_ ones
- 6 Fill in

Number	Objects
18	

7 Fill in the missing number

34, 44, 54, 64, \_\_\_\_\_

8 Fill in the missing number

97, 95, 93, 91, \_\_\_\_\_

9 Write  $\frac{1}{2}$  or  $\frac{1}{4}$ ?









- 12. Kigen has 35 beads. His sister gives him 42 beads. How many beads does Kigen have altogether?
- 13. Wafula has 35 goats, his friend has 25 goats. How many goats do they have altogether?
- 14. Write the missing numbers? 47, 57, 67, \_\_\_\_\_, 97

17. Complete the number family

$$q + 6 = \square$$
  $6 + q = \square$   
 $15 - q = \square$   $15 - 6 = \square$ 

- 18. Fill in the missing number  $\boxed{\phantom{0}}$  15 = 27
- 19. Write the missing numbers

20. There are 44 people in birthday party. 21 people leave the party. How many people are left?

27 Share 20 books among 5 pupils













28 Divide

29 Which is shorter than, longer than or same as?

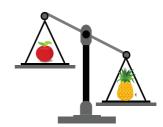
A is \_\_\_\_\_ D

B is C

D is \_\_\_\_\_ B

30 Write heavier than or lighter than.





The stone is \_\_\_\_\_ the duster The apple is \_\_\_\_\_ the pineapple

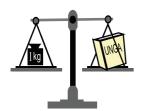
31 Which is heavier than, lighter than or same as



The block of wood is \_\_\_\_\_ as the ball



The 1 kg mass is \_\_\_\_\_ the book.



The 1 kg mass is \_\_\_\_\_\_ the unga.



The shoe is \_\_\_\_\_ the 1 kg mass.

32 Which holds more?



Glass



Spoon

#### 33 Which holds less?



34 Which holds more than, less than or same as?



Bucket A holds \_\_\_\_\_ as bucket B

#### 35 Write the time







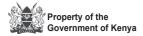
36 Write the time 2 o'clock in the digital clock face.

•	

37 Look at the calendar. write the day of the week.

OCTOBER 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	ı	2	3	Ч	5	6
7	8	q	10	Ш	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

	October 5	
	October 11	
	October 14	
	October 20	
	October 31	
38	Write good or	service
	Item	Good or service
	Tailor	
	Bread	
	Transport	
	Rubber	
39	How many?	
	20	ten shilling coins
		five shilling coins
	50 Summer 50 50 50	
	20 s	hilling notes, 10 shillings
40	Draw a curv	ed line
41	Complete th	e pattern
		180





# MATHEMATICS ACTIVITIES PUPIL'S BOOK 2

This book is for use by learners with Hearing Impairment in Grade 2 This book has:

- Covered all the concepts in the mathematics curriculum design for grade 2.
- Identified lessons for each week
- Variety of examples and activities
- Variety of strategies for working out questions
- Clear illustrations

This book has been developed by a team of experts from the Kenya Institute of Curriculum Development (KICD), Kenya Institute of Special Education (KISE), Ministry of Education (MoE), Kenya Primary Education Development Project (PRIEDE), Centre for Mathematics Science and Technology Education in Africa (CEMASTEA) and Teachers Service Commission (TSC).





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