

MATHEMATICS

Primary

1

Pupil's book

© 2023 Rwanda Basic Education Board

All rights reserved.

This book is the property for the Government of Rwanda.

Credit must be given to REB when the content is quoted

FOREWORD

Dear Pupil,

Rwanda Basic Education Board is honoured to present to you this Mathematics book for Primary one which serves as a guide to competence-based teaching and learning to ensure consistency and coherence in the learning of Mathematics subject. The Rwandan educational philosophy is to ensure that you achieve full potential at every level of education which will prepare you to be well integrated in society and exploit employment opportunities.

The government of Rwanda emphasizes the importance of supporting teaching and learning materials with the syllabus to facilitate your learning process. Many factors influence what you learn, how well you learn and the competences you acquire. Those factors include the instructional materials available among others. Special attention was paid to the activities that facilitate the learning process in which you can develop your ideas and make new discoveries during concrete activities carried out individually or in pairs.

In competence-based curriculum, learning is considered as a process of active building and developing knowledge and meanings by the learner where concepts are mainly introduced by an activity, a situation or a scenario that helps the learner to construct knowledge, develop skills and acquire positive attitudes and values. For effective use of this textbook, your role is to:

- Work on given activities which lead to the development of skills;

- Share relevant information with other learners through discussions, group work and other active learning techniques.
- Participate and take responsibility for your own learning;
- Draw conclusions based on the findings from the learning activities.

I wish to sincerely extend my appreciation to the people who contributed towards the development of this textbook, particularly REB staff who organized the whole process from its beginning. Special gratitude goes to teachers, illustrators and designers who carefully worked to successful completion of this textbook. Any comment or contribution would be welcome for the improvement of this textbook for the next edition.



Dr. MBARUSHIMANA Nelson

Director General, REB



ACKNOWLEDGEMENT

I wish to sincerely extend my special appreciation to people who played a major role in development and editing of this Mathematics book for Primary One. It would not have been successful without the participation of different partners that I would like to express my deep gratitude.

My thanks go to the Rwanda Basic Education Board leadership and staff who were involved and supervised the whole activity of in-house textbook Elaboration. I also wish to extend my appreciation to teachers, lecturers, and different education experts for their valuable support.



Joan MURUNGI

Head of CTLR Department

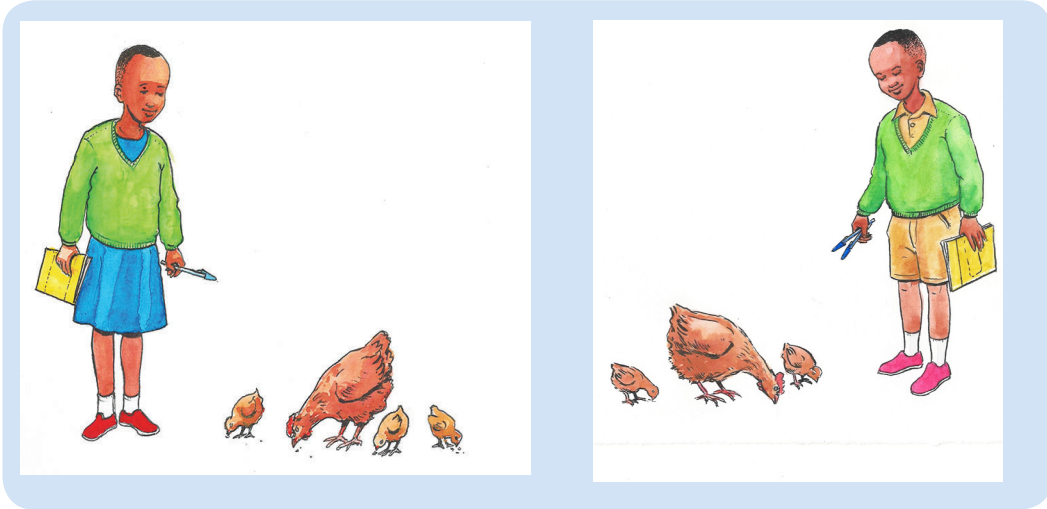
TABLE OF CONTENT

FOREWORD	iii
ACKNOWLEDGEMENT	iv
UNIT 1: Numbers from 1 up to 5	1
UNIT 2: Numbers from 1 up to 9	24
UNIT 3: Numbers from 0 up to 10	42
UNIT 4: Numbers from 0 up to 20	58
UNIT 5: Multiplication and division by 2	82
UNIT 6: Numbers from 0 up to 50	89
UNIT 7: Numbers from 0 up to 100	107
UNIT 8: Fractions $\frac{1}{2}$ and $\frac{1}{4}$	121
UNIT 9: Number patterns	128
UNIT 10: Measuring lengths less than or equal to 10 m	135
UNIT 11: Main parts of the day and days of the week	143
UNIT 12: Rwandan currency from 1 frw up to 100 frw	149
UNIT 13: Directions, location of objects and lines	158
UNIT 14: Right angle, square and rectangle.	166

UNIT 1: NUMBERS FROM 1 UP TO 5

1.0. Introductory activity

1. Look at the picture.
2. What do you see?



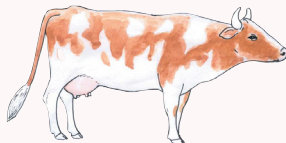
3. How many hens?
4. How many pens?
5. How many notebooks?

1.1. Counting, Reading and writing the number 1



Count objects.
How many?

one cow



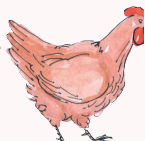
one pineapple



one ball



one hen



one cup

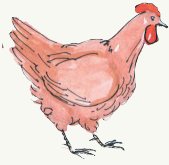


one flower





Count objects.
Read the number 1



Hen

1

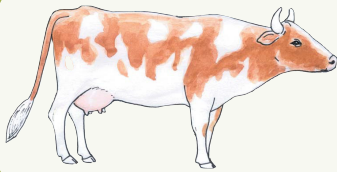


Pineapple

1



Count objects.
Write the number 1



1 _____

1 1 _____

1.2. Counting, Reading and writing the number 2



Count objects.
How many?

Two cars



Two oranges





Count objects.
Read the number 2



Cars

2



Oranges

2



Count objects.
Write the number 2



Cars

2

2

2 _____

2 2 _____

1.3. Counting, Reading and writing the number 3



Count objects.
Say the number in each box.

Three avocados



Three kettles





Count objects.

Read the number 3



Avocados

3



Kettles

3



Count objects.

Write the number 3



Avocados

3

3

3

3 3

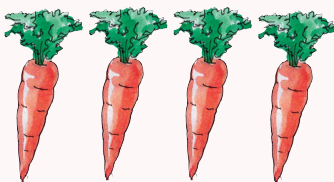
1.4. Counting, Reading and writing the number 4



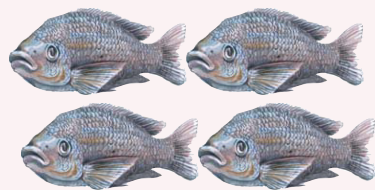
Count objects.

Say the number in each box.

Four carrots

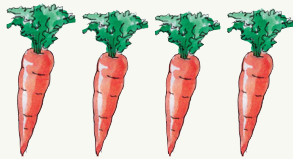


Four fish





Count objects.
Read the number 4



Carrots

4

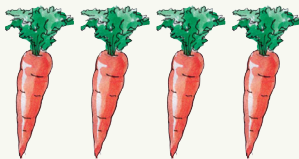


Fish

4



Count objects.
Write the number 4



Carrots



4 _____

4 4 _____

1.5. Counting, Reading and writing the number 5



Count objects.
Say the number in each box.

Five bicycles



Five bottles





Count objects.

Read the number 5



Bicycles

5



Bottles

5



Count objects.

Write the number 5



Bottles

5

5

5

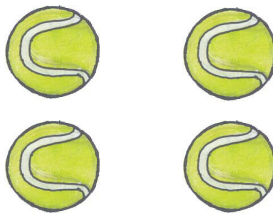
5 5



Count objects.

Write the numbers

Tennis balls



Maize



Tomatoes



Cars


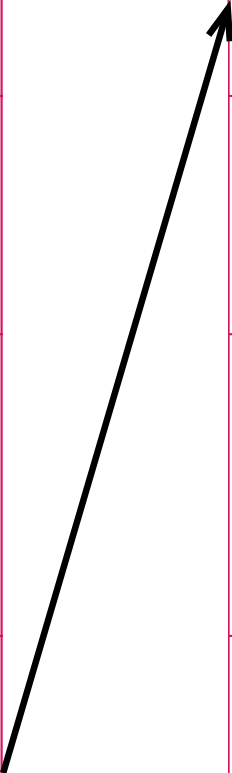
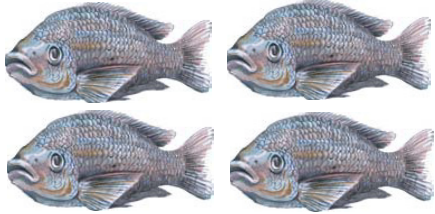
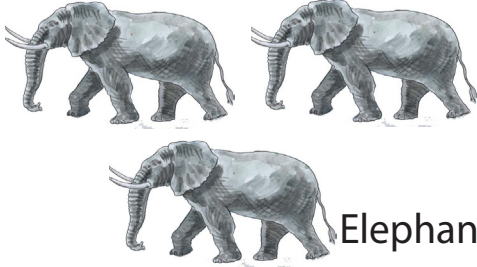
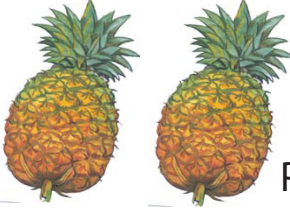



Pineapples





Count and match

Objects	Match	Numbers
 Car		2
 Fish		5
 Elephant		3
 Pineapples		4
 Bananas		1



Read numbers.

Write numbers.

1 1 1 _____

2 2 2 _____

3 3 3 _____

4 4 4 _____



5 5 5 _____

1.6. Comparing and arranging numbers less than 5



Count bananas.

Which is more? Which is less?

<p>3 bananas</p> 	<p>4 bananas</p> 
---	--



Count cars.



Which is more? Which is less?

<p>2 cars</p> 	<p>1 car</p> 
---	---



Count avocados.

Which is more? Which is less?

<p>4 avocados</p> 	<p>5 avocados</p> 
---	--

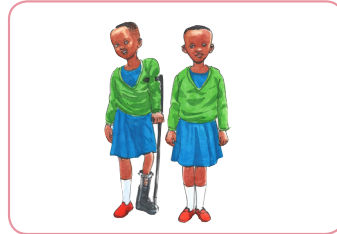


Fill in the box with: $<$, $>$ or $=$.

Examples

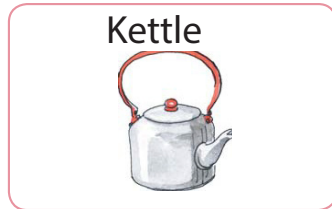


3

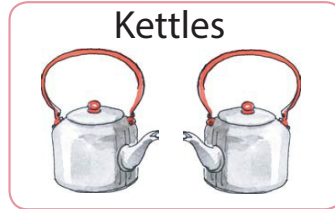


2

$>$

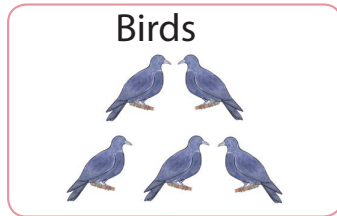


1

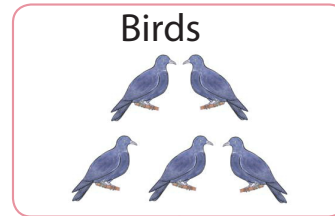


2

$<$

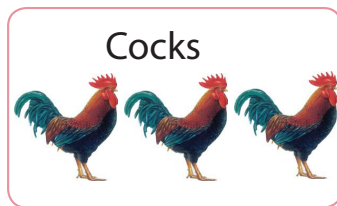


5

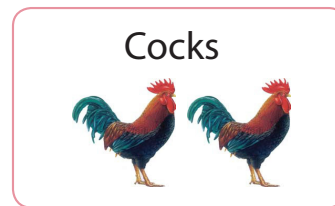


5

$=$



3



2



Elephants



2

Elephants



2

Pineapple



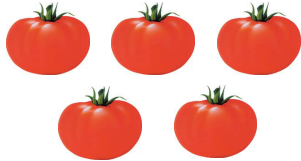
1

Pineapples



4

Tomatoes



5

Tomatoes



3



Fill in the box with: $<$, $>$ or $=$.

3

$>$

2

1

4

2

2

5

3

3

4

5

5

1





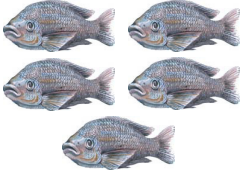
2

5

4



Count fish in each box. Say the number.

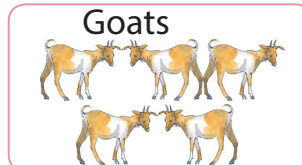
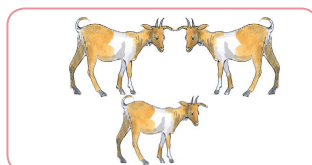
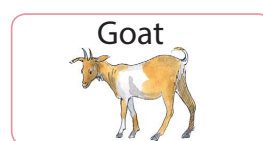
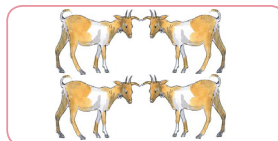
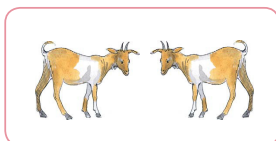
	1 Fish
	.....Fish
	.....Fish
	.....Fish
	.....Fish



Count and say the number.



- Count goats in each box.
- Which is more? Which is less?





Fill in the missing numbers.

1 .. 3 .. 5



Arrange from the smallest to the biggest.

2 5 3 4 1
1 _____

1.7. Addition of numbers



Count objects.
Fill in the correct number.

Example: 3 and 1 pineapples make 4 pineapples

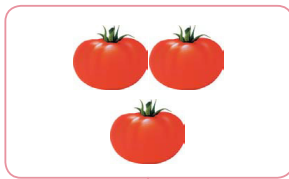
Pineapples 3	Pineapple 1	Hens 2	Hen 1	Chairs 3	Chair 2
4					



Count objects.
add numbers.

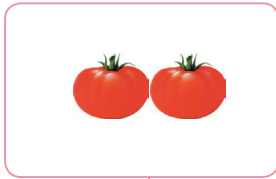
Example:

 1	+	 2	=	 3	Ducks
-------	---	-------	---	-------	-------



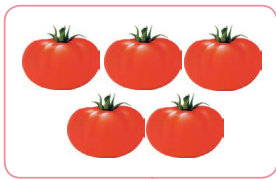
3

+

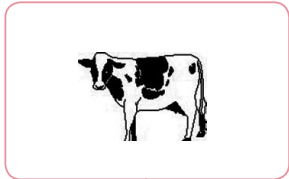


2

=

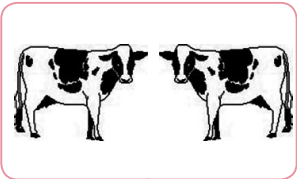


Tomatoes



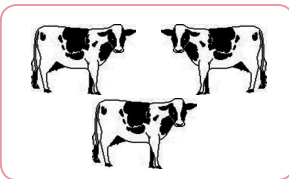
1

+



2

=



Cows



2

+



2

=



Tomato trees



Count and find the missing number

4 = 1 + (3 tomatoes)

3 = 2 + (3 bananas)

4 = 2 + (4 grapes)

2 = 1 + (2 lemons)


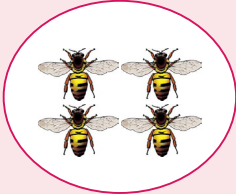
5 = 2 + (5 tomatoes)

5 = 4 + (5 tomatoes)

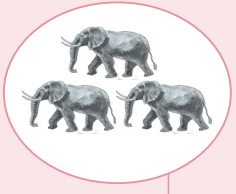
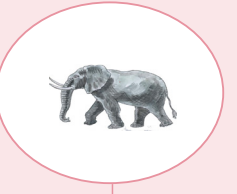


Count objects.
add numbers.



Example

  Bees



$5 = 1 + \square$

  Elephants

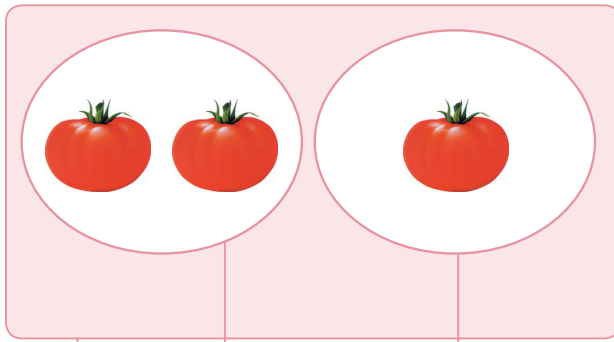
$4 = 3 + \square$

  Butterflies

$5 = 2 + \square$

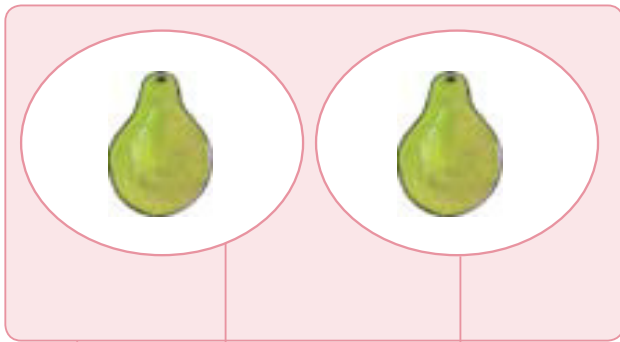
  Maize

$4 = 2 + \square$



Tomatoes

$$3 = 2 + \square$$



Avocados

$$2 = 1 + \square$$



Add numbers.

Example

$$\begin{array}{r} 1 \\ / \end{array} + \begin{array}{r} 2 \\ // \end{array} = \begin{array}{r} 3 \\ /// \end{array}$$

$$\begin{array}{r} 1 \\ / \end{array} + \begin{array}{r} 3 \\ /// \end{array} =$$

$$\begin{array}{r} 2 \\ // \end{array} + \begin{array}{r} 3 \\ /// \end{array} =$$

$$\begin{array}{r} 2 \\ // \end{array} + \begin{array}{r} 2 \\ // \end{array} =$$

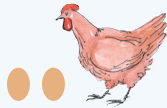


Fill in with the missing number



This hen has 3 eggs

This hen has 2 eggs



The two hens have

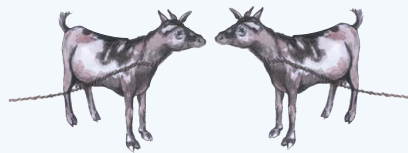
Gasore has 2 bananas



Gasore gets 1 bananas

The number of all bananas

Munezero has 3 goats



Munezero gets 2 more goats

The number of all goats is

1.8. Subtraction of numbers



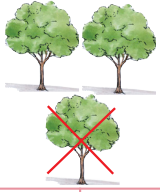
Count the objects.

Take away 1 object.

Fill in with the remaining number.

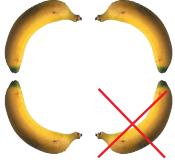
Examples:

Trees



2

Bananas




3



Take away 2 pineapples.

Fill in with the remaining number.

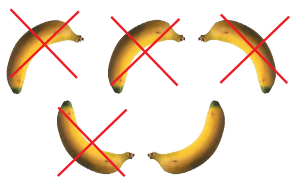
Pineapples



Take away 4 bananas.

Fill in with the remaining number.

Bananas

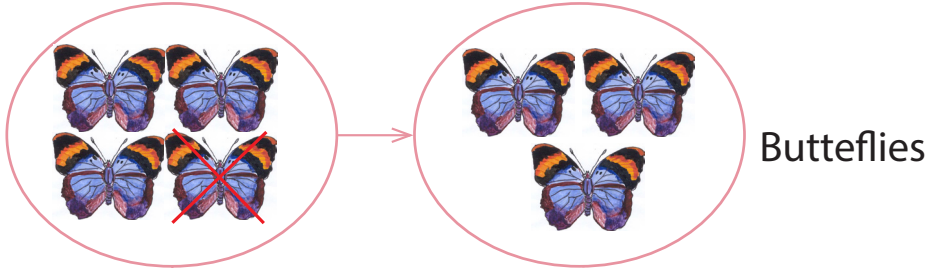




Count objects.

Write the remaining number.

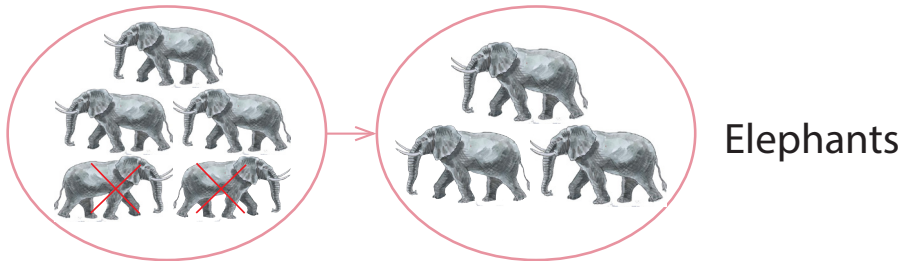
Examples



4 - 1

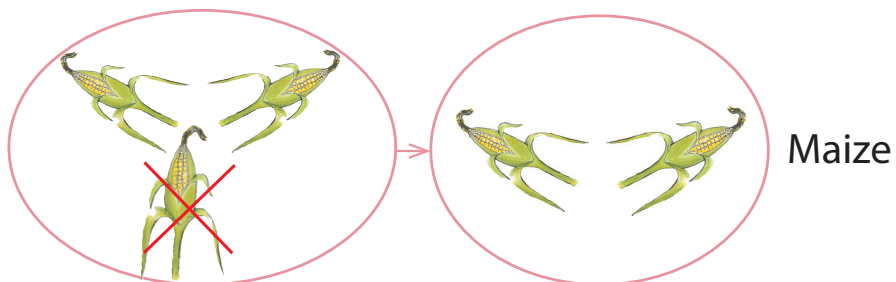
=

3



5 - 2

=



3 - 1

=





Do these

$5 - 4 = 1$

$5 - 1 = \square$

$5 - 3 = \square$

$4 - 1 = \square$

$4 - \square = 3$

$3 - 2 = \square$



Take away. Write the answer



Mahoro has **3 pens** and gives Gisa **1 pen**

Mahoro remains with pens



Do these

$2 + 3 = \square$

$4 + 1 = \square$

$5 = 4 + \square$

$4 - 2 = \square$

$5 - 2 = \square$

$3 - 1 = \square$

$3 = 1 + \square$



Fill in with: $>$, $<$ or $=$

$2 \square 3$

$5 \square 3$

$2 \square 4$

$3 \square 3$

$2 \square 1$

$4 \square 1$

$3 \square 4$

$1 \square 3$



Fill in with the missing numbers

1	.	.	4	.
---	---	---	---	---



Look at the example.

Find the missing numbers.



$5 = 1 + 4$

$5 = \dots + 2$






$5 = \dots + 3$

$5 = \dots + 1$

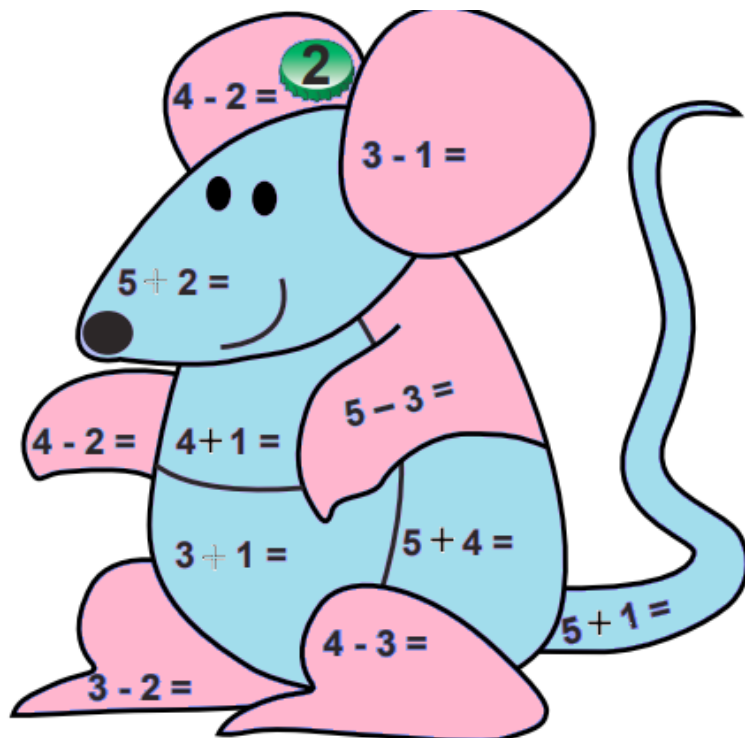


End unit assessment

1. Count and write numbers from 1 to 5.

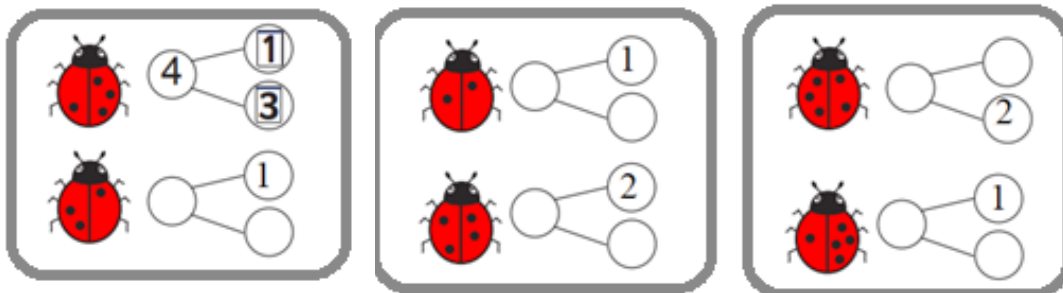
	1	1	1	1
	2			
	3			
	4			
	5			

2. Add and subtract the following

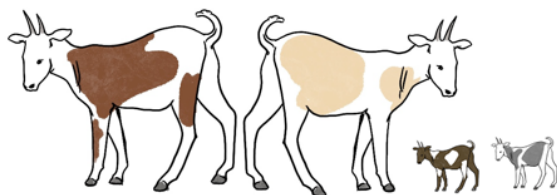


3. Count and fill in the missing numbers

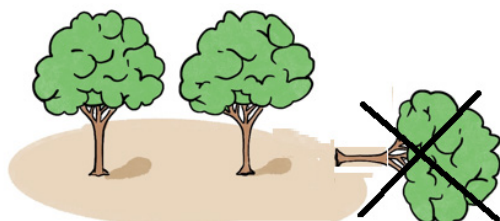
Ladybirds



4. Do these



- Minani has **2 big goats** and **2 small goats**.
- How many goats Minani has altogether?

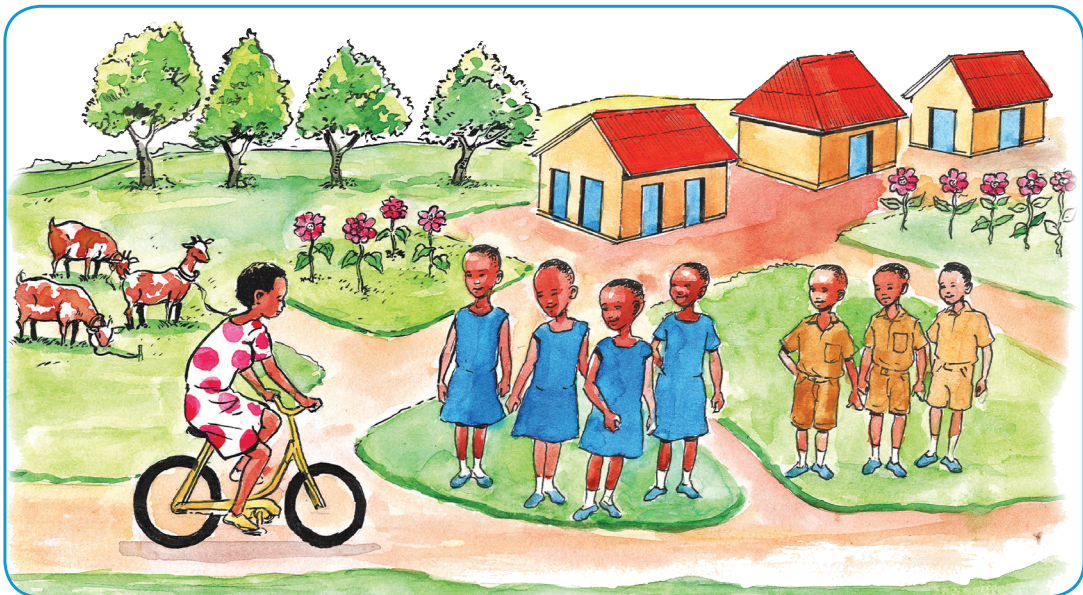


- Fiona has **3 trees** in her garden.
- A goat **damages 1 tree** and Fiona cuts it off.
- How many trees does Fiona remain with?

UNIT 2: NUMBERS FROM 1 UP TO 9

2.0. Introductory activity

1. Look at the picture.
2. How many children do you see?
3. How many boys do you see?
4. How many girls do you see?
5. How many houses do you see?
6. How many flowers do you see?
7. How many goats do you see?

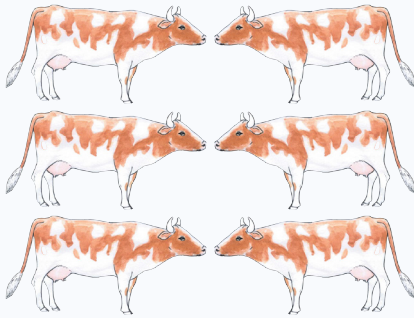


2.1. Counting, Reading and writing the number 6



Say the number of objects in each box.

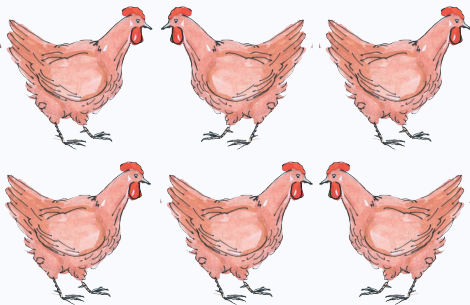
Six cows



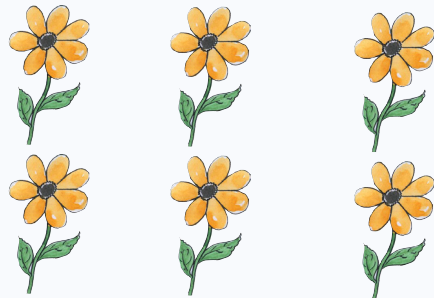
Six balls



Six hens



Six flowers



Count objects.

Read the number 6



Flowers

6



Balls

6



Count objects.

Write the number 6



Flowers

6

6

6

6 6

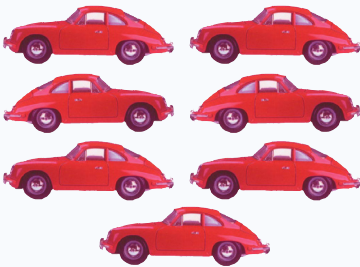
2.2. Counting, Reading and writing the number 7



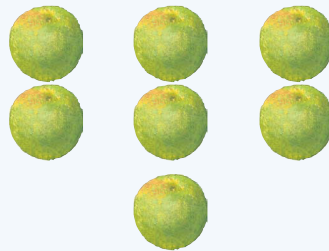
Count objects.

Say the number

Seven cars



Seven oranges



Count objects.

Read the number 7



Bottles

7



Oranges

7



Count objects.

Write the number 7



Oranges

7

7

7

7 7

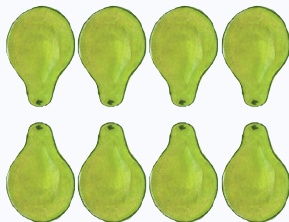
2.3. Counting, Reading and writing the number 8



Count objects.

Say the number

Eight avocados



Eight kettles




Count objects.

Read the number 8




Kettles


8



Avocados 8



Count objects.
Write the number 8




Avocados 8 8

8 _____

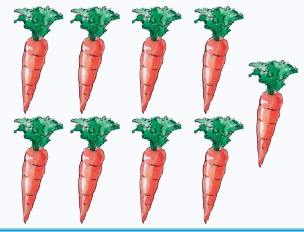
8 8 _____

2.4. Counting, Reading and writing the number 9

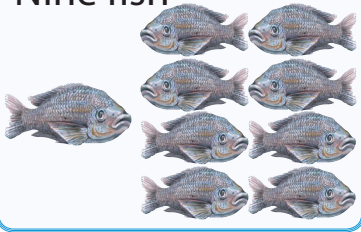



Count objects.
Say the number

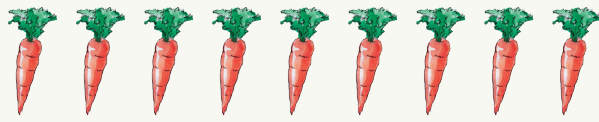
Nine carrots



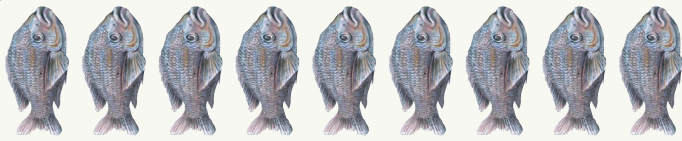
Nine fish

Count objects.
Read the number 9



carrots 9



Fish

9



Count objects.

Write the number 9



carrots

9

9

9

9 9



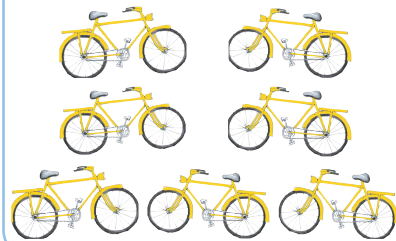
Count objects.

Write the numbers

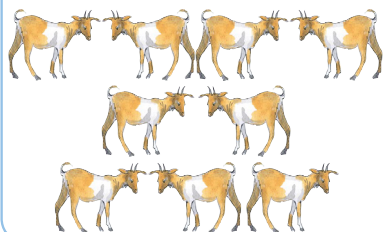
Flasks



Bicycles



Goats



Trees




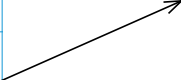

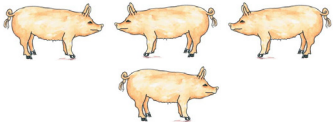
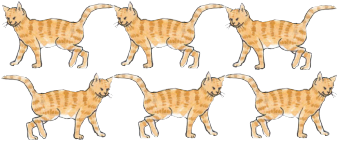
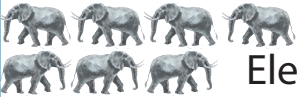






Count objects.
Write the number.



Count and match

Objects	Match	Number
 Cow		8
 Goats		3
 Lions		9
 Dogs		7
 Pigs		6
 Cats		4
 Elephants		5
 Birds		1
 Rats		2



Read numbers. Write numbers.

6 6 _____

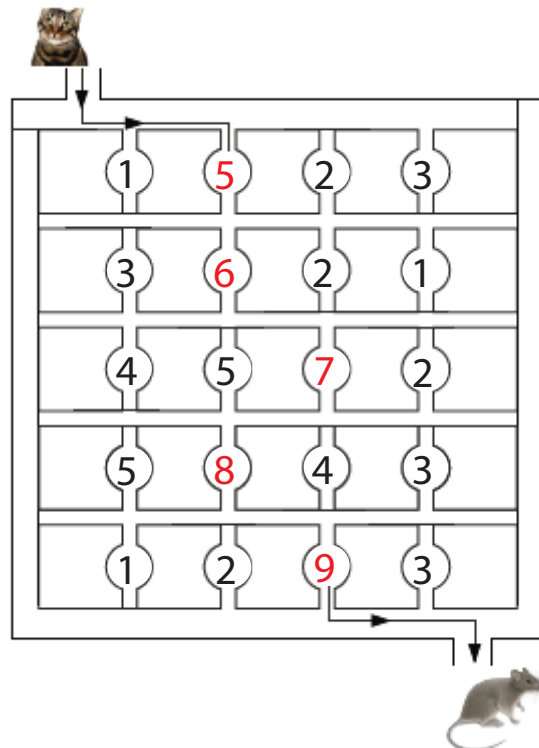
7 7 7 _____

8 8 8 _____

9 9 9 _____



- The numbers in red show the path for the cat to catch the rat.
- Read numbers in red. Write numbers 5, 6, 7, 8, 9.



2.5 Comparing and arranging numbers up to 9



Count objects.

Which is the smallest number?

9 balls



5 balls



Count objects.

Which is the biggest number?

6 spoons



4 spoons



Count avocados in each box.

Which is less? Which is more?

3 avocados



3 avocados



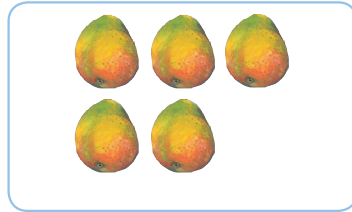


Count and write numbers.

Fill in the box with: $<$, $>$ or $=$

Examples:

Mangoes



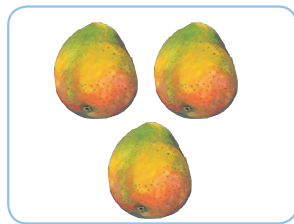
5

$>$



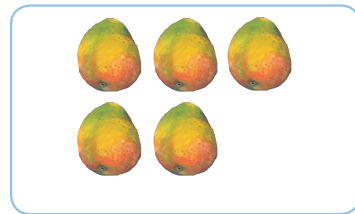
3

Mangoes



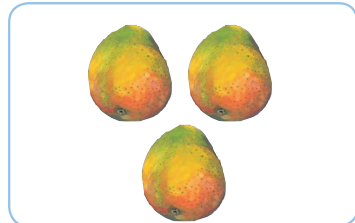
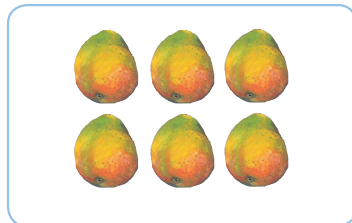
3

$<$

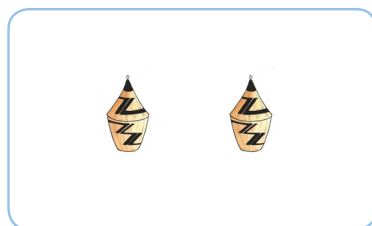


5

Mangoes



Baskets





Fill in with the correct symbol: $>$, $<$ or $=$

$5 < 6$

$7 > 3$

$4 = 4$

$2 \square 8$

$9 \square 8$

$1 \square 7$

$6 \square 6$

$3 \square 4$

$5 \square 1$

$2 \square 4$

$9 \square 6$

$3 \square 5$



Arrange from the smallest to the biggest.

Arrange from the biggest to the smallest.

	9	7	3	1
Example:	1	3	7	9
	7	4	2	5
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

	2	9	1	6	4
Example:	9	6	4	2	1
	6	8	3	5	7
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

2.6. Addition of numbers



Count objects.

Complete with the correct number.

Baskets

$3 + 2 = 5$



Count flasks.

Fill in the number of all flasks.

Flasks

$3 + 4 = \dots$



Fill in with the missing numbers

$$9 = 8 + 1$$

$$9 = 7 + 2$$

$$9 = 6 + 3$$

$$9 = 5 + 4$$

$$9 = 4 + \dots$$

$$9 = 3 + \dots$$

$$9 = 2 + \dots$$

$$9 = 8 + \dots$$

$8 = 7 + 1$

$8 = 6 + 2$

$8 = 5 + 3$

$8 = 4 + 4$

$8 = \dots + 5$

$8 = 2 + \dots$

$8 = 1 + \dots$

$7 = 6 + 1$

$7 = 5 + 2$

$7 = 4 + 3$

$7 = 3 + \dots$

$7 = \dots + 5$

$7 = 1 + \dots$

$6 = 5 + 1$

$6 = 4 + 2$

$6 = 3 + 3$

$6 = \dots + 3$

$6 = 2 + \dots$

$6 = \dots + 5$



Look at the example.

Find the number to add to get the number in color.



$2 + 3 = 5$



$\square + 3 = 4$



$\square + 2 = 6$



Fill in with the missing numbers

$8 + 1 = \square$

$2 + 4 = \square$

$4 + 4 = \square$

$2 + 7 = \square$

$3 + 5 = \square$

$7 + \square = 9$

$\square + 6 = 7$

$\square + 4 = 7$

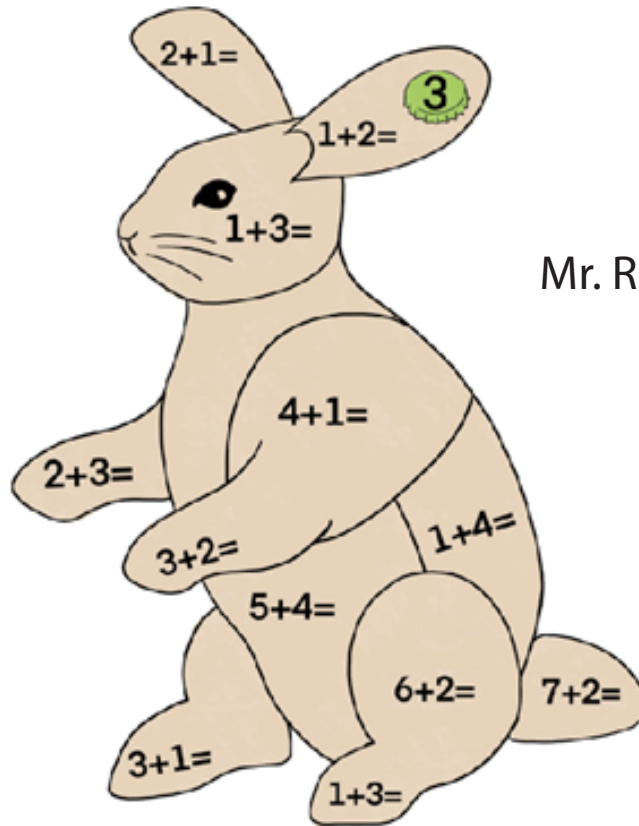
$3 + 3 = \square$



Look at the example.

Find the answers

Example: $1 + 2 = 3$

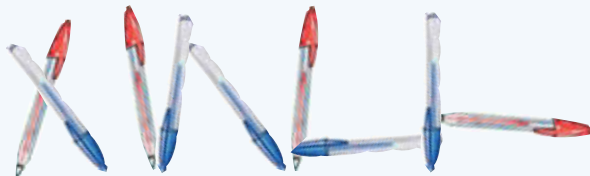


Mr. Rabbit



Work out this

Look at the pictures count



The number of red pens is

The number of blue pens is

The number of all pens is

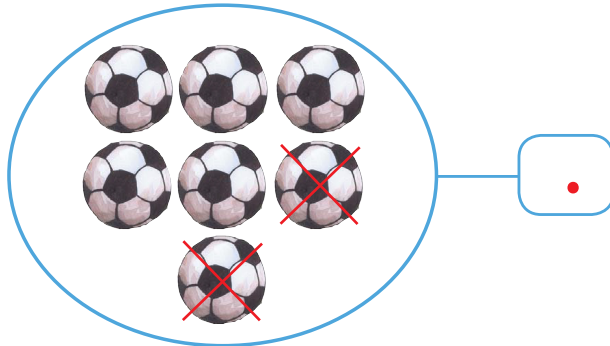
2.7. Subtraction of numbers



Count and take away 2 objects.

Fill in the number.

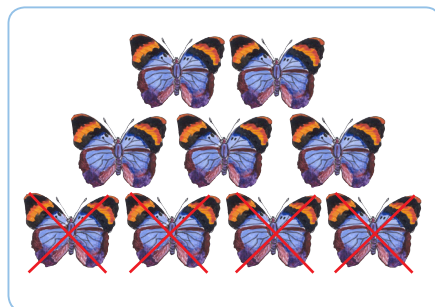
Balls



Count objects.

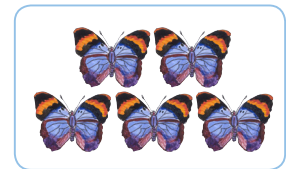
Fill in the box with the correct number.

Butteflies

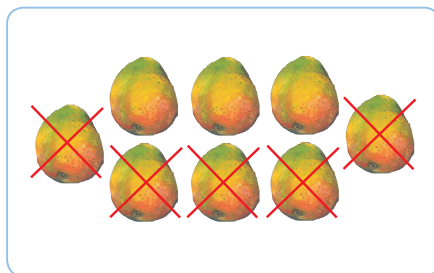


$$9 - 4$$

=



Mangoes



$$8 - 5$$

=





Fill in with the missing numbers

$8 - 2 = \square$

$7 - 1 = \square$

$9 - 4 = \square$

$9 - 7 = \square$

$8 - 7 = \square$

$8 - \square = 7$

$\square - 5 = 4$

$7 - \square = 4$

$6 - 2 = \square$



Do these

- Count the flowers
- Take away all red flowers
- The number of remaining flowers is



- Gacuruzi has 6 bicycles
- He sells 5 bicycles
- Gacuruzi remains with bicycles





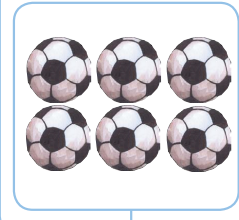

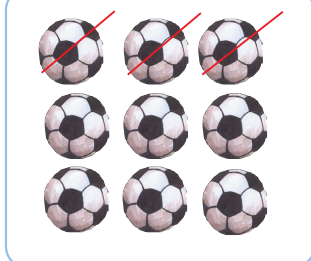
Add and subtract in this puzzle

1 + 3 = 4				5			
				+			
6 - = 2							
				=			
1 + 8 = 9							
				-			
4 - = 0							
				+			
2 + =				2			
				=			
9 - = 2							



End unit assessment

1. Count balls. Fill in the boxes with the correct numbers

  <div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <div style="border: 1px solid blue; border-radius: 10px; padding: 5px; width: 30px; text-align: center;">6</div> <div style="font-size: 24px;">+</div> <div style="border: 1px solid blue; border-radius: 10px; width: 30px; height: 30px;"></div> <div style="font-size: 24px;">=</div> <div style="border: 1px solid blue; border-radius: 10px; width: 30px; height: 30px;"></div> </div>	 <div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <div style="border: 1px solid blue; border-radius: 10px; padding: 5px; width: 30px; text-align: center;">9</div> <div style="font-size: 24px;">-</div> <div style="border: 1px solid blue; border-radius: 10px; width: 30px; height: 30px;"></div> <div style="font-size: 24px;">=</div> <div style="border: 1px solid blue; border-radius: 10px; width: 30px; height: 30px;"></div> </div>
--	--

2. Compare these numbers using the symbol $< = >$

$4 < 6$

$2 \square 4$

$9 \square 8$

$3 \square 8$

$5 \square 2$

$9 \square 6$

$6 \square 7$

$1 \square 7$

3. Add and subtract in this puzzle

				1	+	3	=	4					5
						-							+
7	6 -				=	2							
-					=						=		
						1	+	8	=	9			
=				-					-				
4	+		=	5					4	-		=	0
				=					=				
				2	+		=						

UNIT 3: NUMBERS FROM 0 UP TO 10

3.0. Introductory activity 3

1. Look at the picture.
2. What do you see in the pictures?
3. How many people are in the pictures?
4. How many bananas are in the picture?



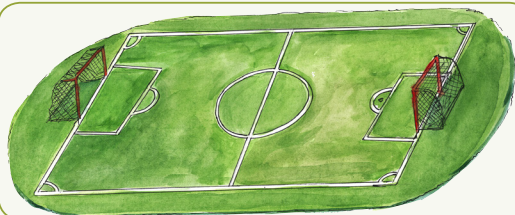
3.1. Counting, Reading and writing the number 0 and 10

There are two football playgrounds.



Count the children in each playground.

Say the number.



- How many children are in the first football playground?



- How many children are in the second football playground?



Count and take away.
Write the remaining number.

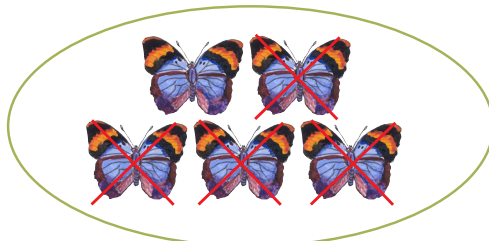


$$5 - 3$$

=



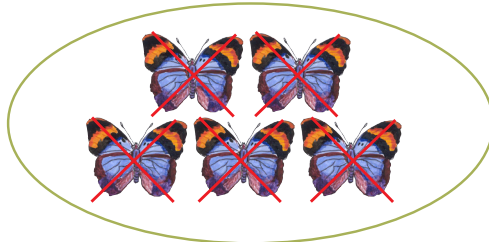
Butteflies



$$5 - 4$$

=





$$5 - 5$$

=



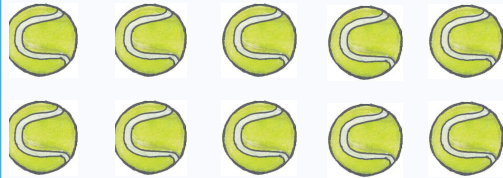


Count. Say the number.

Ten footballs



Ten tennis ball



Read numbers 0 and 10.

Write the numbers.

0 _____

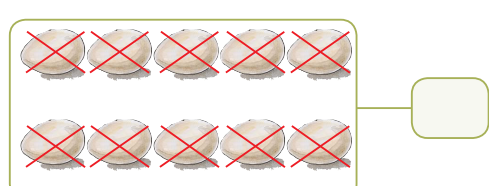
10 10 _____



Count and take away.

Write the remaining number.

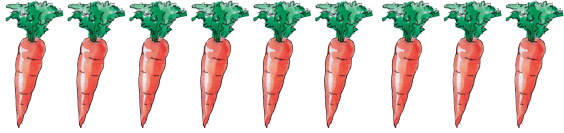


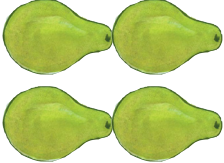
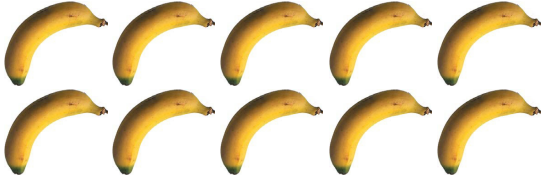



Eggs





Count objects.

Write the number.

Carrots		
Oranges		
Tomatoest		
Avocados		
Bananas		
Tomato trees		
Mangoes		
Pineapple		

3.2. Comparing and arranging numbers up to 10

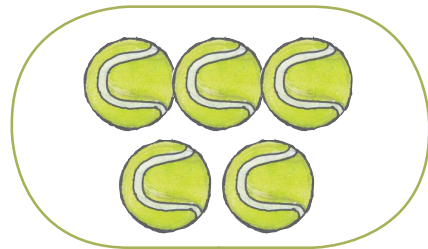
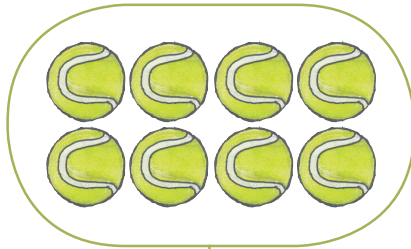
Count objects. Write the number.



What is the smaller number?

What is the bigger number?

Tennis ball



Baskets



Count objects.

Write the number.



Fill in the box with: $<$, $>$ or $=$

Eggs



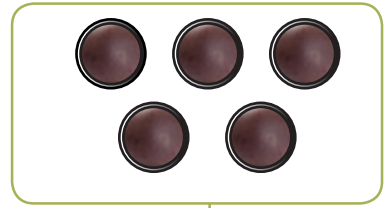
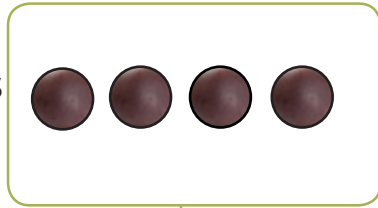
8

$<$



10

Passion fruits



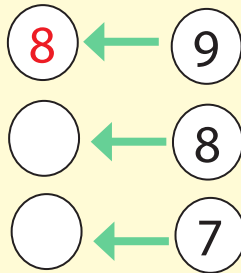
Buckets



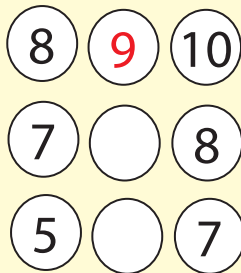
Look at the example.

Find the number before, between or after

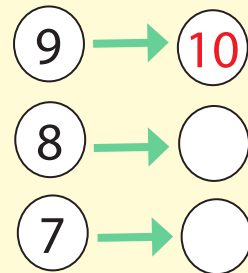
BEFORE



BETWEEN



AFTER



Fill in with the correct symbol: $>$, $<$ or $=$

$10 \square 7$

$0 \square 1$

$8 \square 10$

$3 \square 0$

$10 \square 10$

$1 \square 10$



Arrange numbers.

Start from the smallest to the biggest.

	9	0	3	10
Example:	<input type="text" value="0"/>	<input type="text" value="3"/>	<input type="text" value="9"/>	<input type="text" value="10"/>
	7	4	10	5
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Arrange numbers.

Start from the biggest to the smallest number.

	2	9	0	10	6	4
Example:	<input type="text" value="10"/>	<input type="text" value="9"/>	<input type="text" value="6"/>	<input type="text" value="4"/>	<input type="text" value="2"/>	<input type="text" value="0"/>
	6	8	10	5	7	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3.3. Addition of numbers



Count objects.

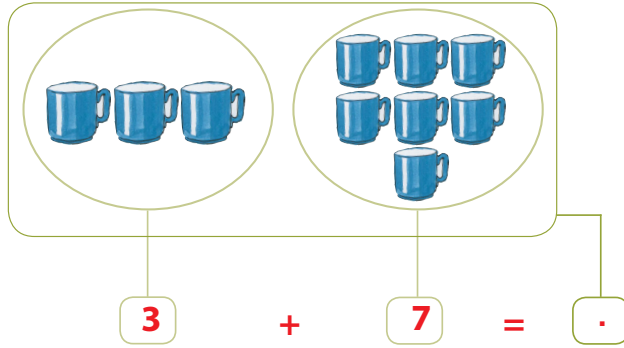
Complete with the correct number.

Example:

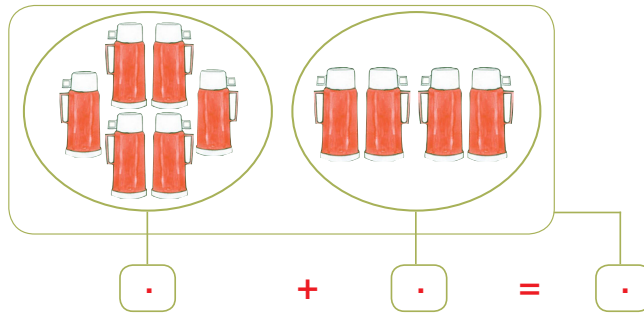
Mangoes

<input type="text" value="6"/>	+	<input type="text" value="4"/>
		<input type="text" value="10"/>

Cups



Flasks



Fill in with the missing numbers

$10 = 9 + 1$

$10 = 8 + 2$

$10 = 7 + 3$

$10 = 6 + 4$

$10 = 5 + 5$

$10 = 5 + \dots$

$10 = 4 + \dots$

$10 = 3 + \dots$

$10 = 2 + \dots$

$10 = 1 + \dots$



Add numbers.

$9 + 1 = \square$

$2 + 0 = \square$

$6 + 4 = \square$

$3 + 7 = \square$

$5 + 5 = \square$

$7 + 2 = \square$

$3 + 6 = \square$

$4 + 5 = \square$

$8 + 0 = \square$



Fill in with the missing numbers

$$\square + 1 = 10$$

$$2 + \square = 2$$

$$6 + \square = 10$$

$$\square + 7 = 9$$

$$\square + 5 = 8$$

$$7 + \square = 10$$

$$\square + 6 = 10$$

$$4 + \square = 9$$

$$8 + \square = 8$$

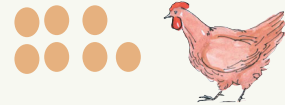


Do these

This hen has 3 eggs



This hen has 7 eggs



All eggs of two hens are

Karabo has 5 blue pens



Munezero gives to her 5 red pens.



Karabo has pens all together

3.4. Subtraction of numbers



Count and take away.

Write the correct number.

Example:

Eggs

2

Fish



Count objects.

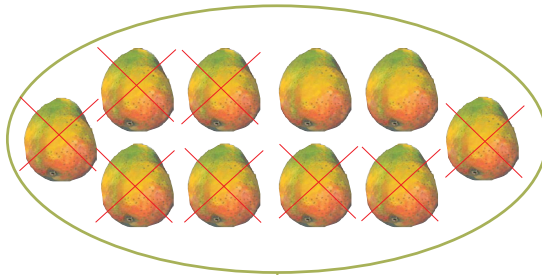
Fill in the correct number.

Example:

Books

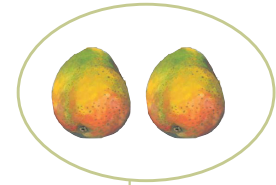
$10 - 4 = 6$

Mangoes



$10 - 8$

=



Subtract numbers.

$10 - 1 = \square$

$10 - 7 = \square$

$9 - 6 = \square$

$10 - 0 = \square$

$10 - 10 = \square$

$10 - 4 = \square$

$10 - 6 = \square$

$10 - 5 = \square$

$10 - 2 = \square$



Fill in with the missing numbers

$10 - \square = 9$

$10 - \square = 3$

$\square - 6 = 3$

$\square - 0 = 10$

$\square - 10 = 0$

$10 - \square = 6$

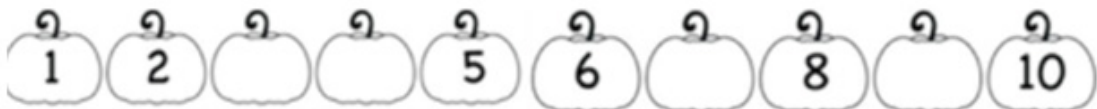
$10 - \square = 4$

$10 - \square = 4$

$\square - 2 = 8$



Fill in the missing numbers.





Match the numbers with objects

Example:

$4 + 3$



Butterflies

$2 + 6$



Rabbits

$3 + 3$



Umbrellas

$2 + 3$



Chicks

$1 + 2$



Bicycle wheels



Look at the example.

Match these.

$4 + 3$

8

$7 + 2$

6

$5 + 1$

7

$6 + 2$


9



Look at the pictures.

Count and write the correct number in the blank boxes.

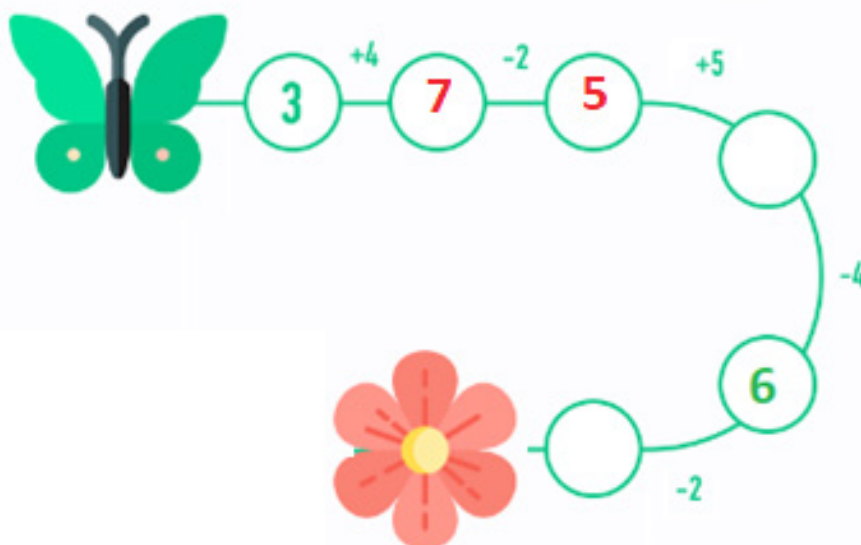
Example:

	$5 - 3 = 2$	$\begin{array}{r} 5 \\ -3 \\ \hline 2 \end{array}$
	$4 - 1 = \square$	$\begin{array}{r} 4 \\ -1 \\ \hline \square \end{array}$
	$6 - 2 = \square$	$\begin{array}{r} 6 \\ -2 \\ \hline \square \end{array}$
	$8 - 4 = \square$	$\begin{array}{r} 8 \\ -4 \\ \hline \square \end{array}$
	$7 - 7 = \square$	$\begin{array}{r} 7 \\ -7 \\ \hline \square \end{array}$



Look at the example.

Follow the rule. Find the missing numbers.



Do these

Count and fill in the blanks with the correct number.



- Ripe bananas are
- Unripe bananas are
- All bananas are



- David has 10 pineapples
- He sells 5 pineapples

David remains with pineapples?



End unit assessment

1. Count. Fill in the box with the correct numbers

+ =

2. Work out these

$6 - 5 =$

$10 - 3 =$

$5 + 1 =$

$8 + 3 =$

3. Complete with the missing number

$6 - \square = 2$

$4 + \square = 6$

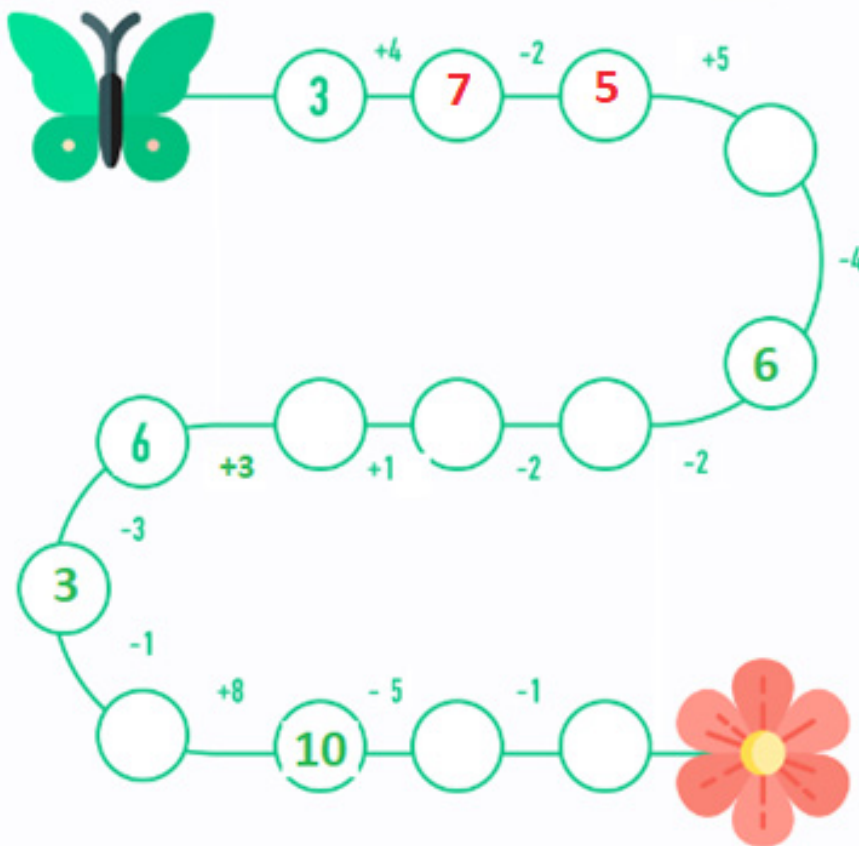
$\square - 3 = 7$

$\square + 3 = 10$

4. Find the number before, between or after

BEFORE	BETWEEN	AFTER
8 ← 9	8 9 10	9 → 10
○ ← 6	2 ○ 4	6 → ○
○ ← 5	3 ○ 5	5 → ○
○ ← 4	1 ○ 3	4 → ○

5. Follow the rule. Find the missing numbers



UNIT 4: NUMBERS FROM 0 UP TO 20

4.0. Introductory activity

1. Look at the football playground.
2. What do you see in the playground?
3. How many teams do you see?
4. How many people are in the playground?
5. How many players are in each team?



4.1. Counting, Reading and writing the number 11



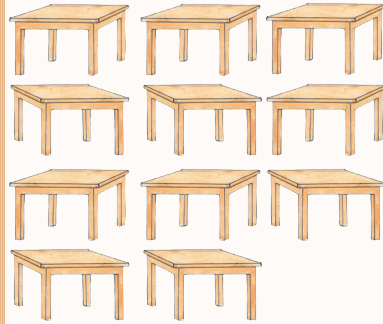
Count objects.

Say the number in each box

Eleven chairs



Eleven tables



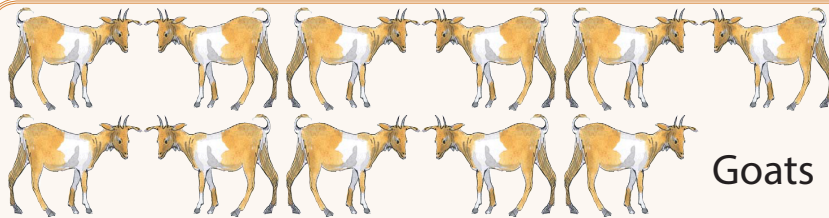
Count objects.

Read the number 11



Rats

11



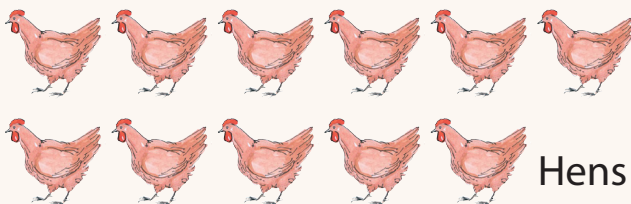
Goats

11



Count objects.

Write the number 11



Hens

11 11

11 11 _____

11 11 _____

4.1. Counting, Reading and writing the number 12



Count objects.

Say the number in each box

Twelve red umbrellas

Twelve blue coats



Count objects.

Read the number 12

Red pens

12

Blue pens

12



Count objects.

Write the number 12

Blue buckets

12 12

12 12 _ _ _ _ _

12 12 _ _ _ _ _

4.2. Counting, Reading and writing the number 13



Count objects.

Say the number in each box

Thirteen cabbages

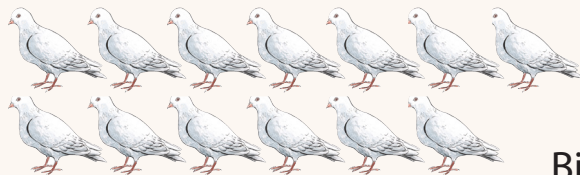


Thirteen onions



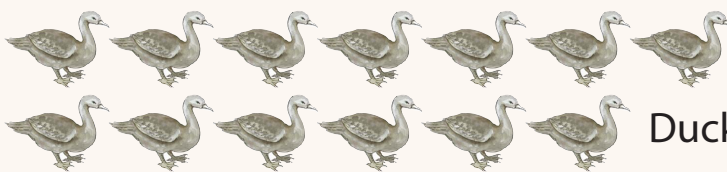
Count objects.

Read the number 13



Birds

13

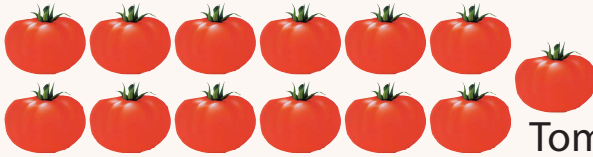


Ducks

13



Count objects.
Write the number 13



Tomatoes

13 13

13 _ _ _ _ _

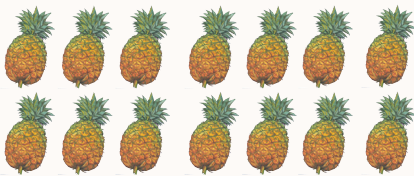
13 13 _ _ _ _ _

4.1. Counting, Reading and writing the number 14

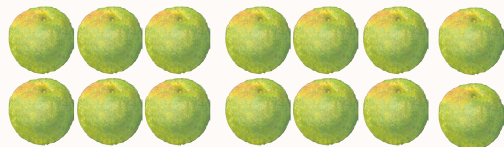


Count objects.
Say the number in each box

Fourteen pineapples



Fourteen oranges



Count objects.
Read the number 14



Basins

14



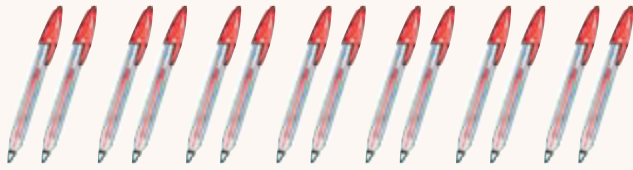
Cups

14



Count objects.

Write the number 14



Pens

14 14

14 _____

14 14 _____

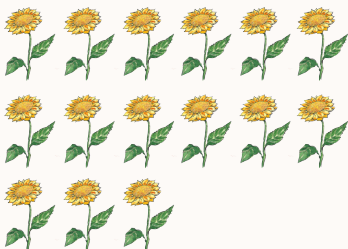
4.2. Counting, Reading and writing the number 15



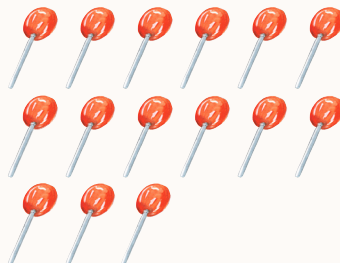
Count objects.

Say the number in each box

Fifteen flowers

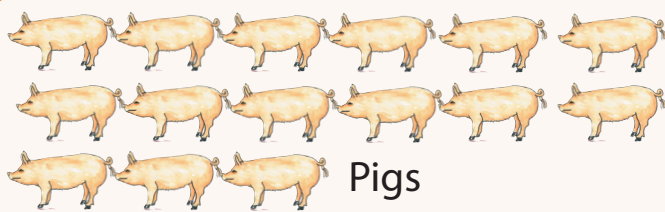


Fifteen sweets



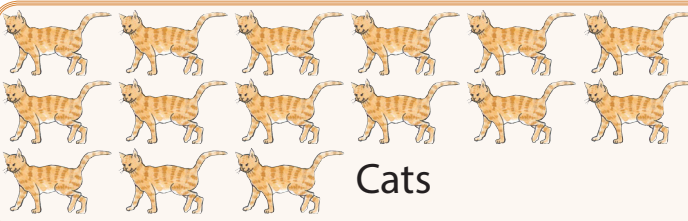


Count objects.
Read the number 15



Pigs

15

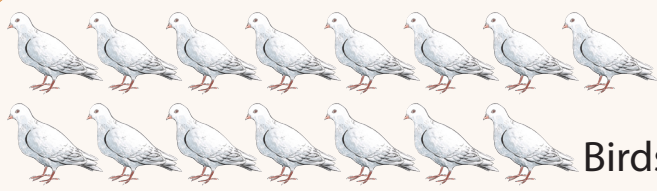


Cats

15



Count objects.
Write the number 15



Birds

15 15

15 _ _ _ _ _

15 15 _ _ _ _ _

4.3. Counting, Reading and writing the number 16



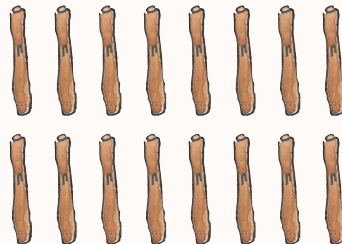
Count objects.

Say the number in each box

Sixteen baskets

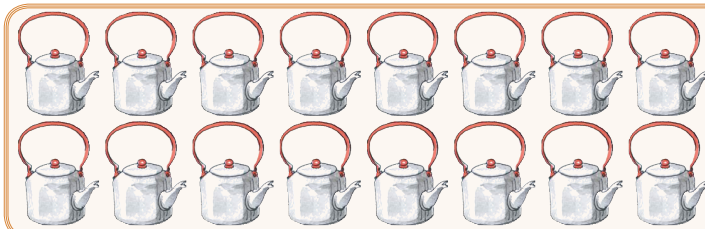


Sixteen sticks



Count objects.

Read the number 16



Kettles

16



Bottles

16



Count objects.

Write the number 16



Buckets

16 16

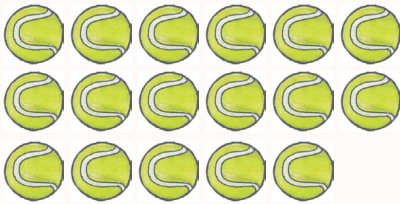
4.4. Counting, Reading and writing the number 17



Count objects.

Say the number in each box

Seventeen tennis balls



Seventeen footballs



Count objects.

Read the number 17



Girls

17



Boys

17



Count objects.

Write the number 17



Houses

17 17

17 _____

17 17 _____

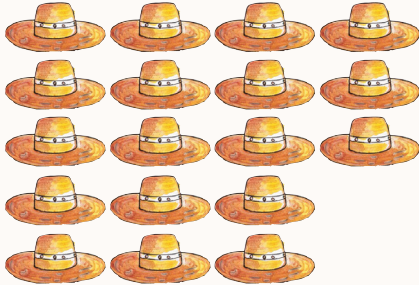
4.5. Counting, Reading and writing the number 18



Count objects.

Say the number in each box

Eighteen hats

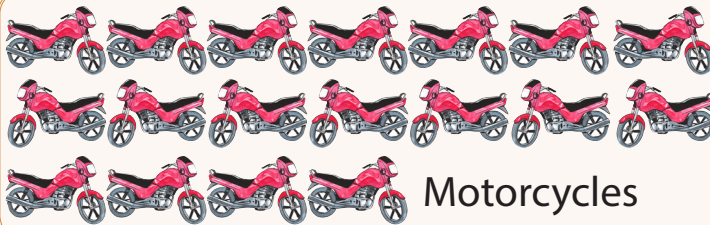


Eighteen coats



Count objects.

Read the number 18



Motorcycles

18



Bicycles

18



Count objects.
Write the number 18

Cars

18 _____

18 18 _____

4.6. Counting, Reading and writing the number 19

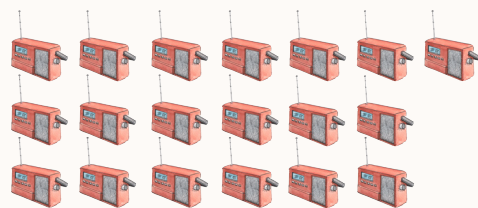


Count objects.
Say the number in each box

Nineteen telephones




Nineteen radios



Count objects.
Read the number 19

Shorts



Vests **19**



Count objects.
Write the number 19



Vests **19 19**

19 _____

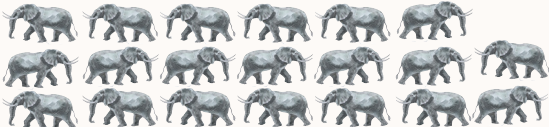
19 19 _____

4.7. Counting, Reading and writing the number 20




Count objects.
Say the number in each box


Twenty elephants



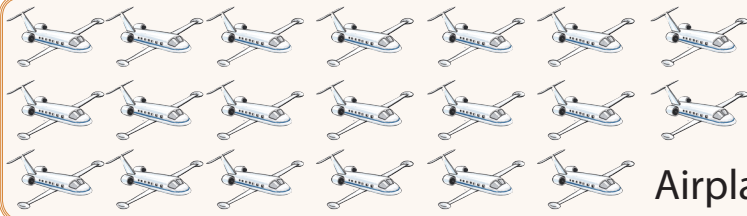
Twenty cows




Count objects.
Read the number 20



Buses **20**



20

Airplanes



Count objects.

Write the number 20



20

Trailers

20 _____

20 20 _____



Count objects.

Fill in the correct number.

Books		
Pens		
Chalks		
Televisions		
Radios		



Write the number.

11	11	11	___	___	___	___	___	___
12	12	12	___	___	___	___	___	___
13	13	13	___	___	___	___	___	___
14	14	14	___	___	___	___	___	___
15	15	15	___	___	___	___	___	___
16	16	16	___	___	___	___	___	___
17	17	17	___	___	___	___	___	___
18	18	18	___	___	___	___	___	___
19	19	19	___	___	___	___	___	___
20	20	20	___	___	___	___	___	___



Count objects.

Write numbers in each box.










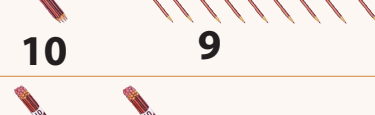
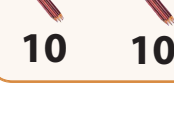
4.11. Tens and ones in a 2-digit number.



Count pencils.

How many tens?

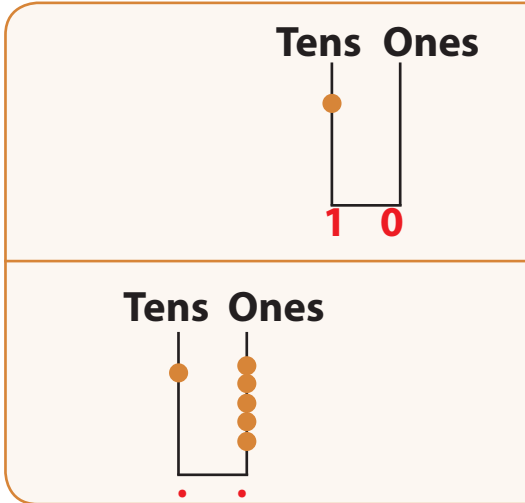
How many single pencils?

Pencils	Number of tens	Single pencils
 10 1	1 Ten	1 Pencil
 10 2	... Tens	... Pencils
 10 3	... Tens	... Pencils
 10 4	... Tens	... Pencils
 10 5	... Tens	... Pencils
 10 6	... Tens	... Pencils
 10 7	... Tens	... Pencils
 10 8	... Tens	... Pencils
 10 9	... Tens	... Pencils
 10 10	... Tens	... Pencils

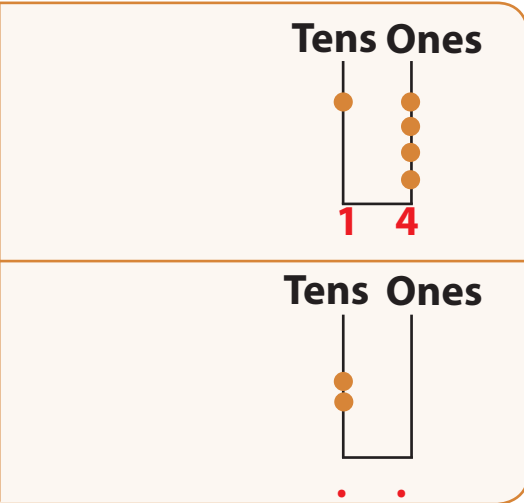


Look at the examples.
Fill in the correct number.

Example

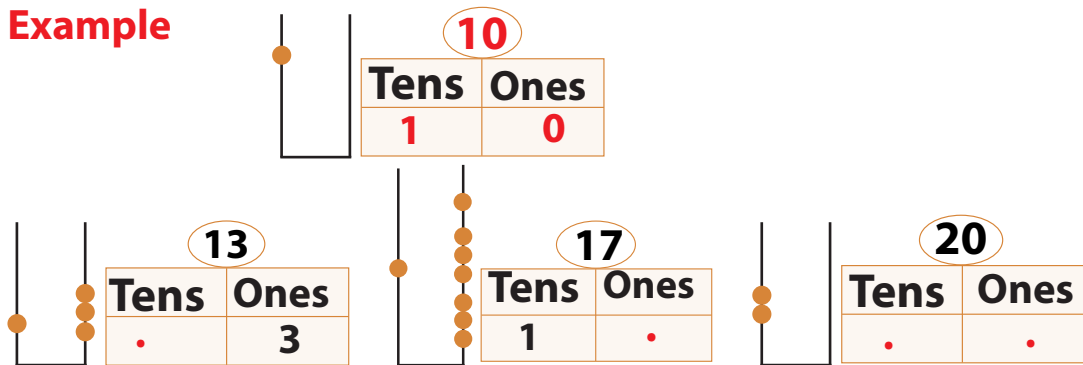


Example



Look at the example.
Fill in the correct number.

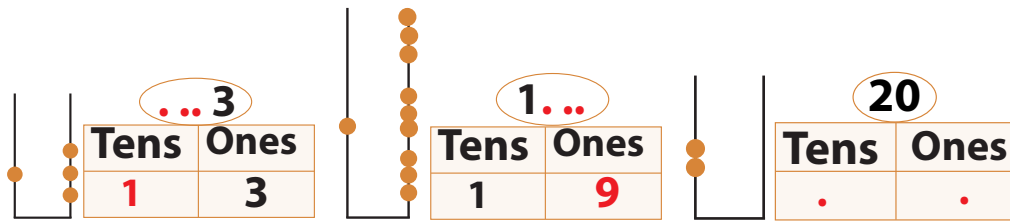
Example



Look at the example.
Fill in the missing number.

Example





Look at the example.

Fill in the correct numbers.

Example: $16 = 1 \text{ Tens } 6 \text{ Ones}$

- $12 = \dots \text{ Tens } \dots \text{ Ones}$
- $20 = \dots \text{ Tens } \dots \text{ Ones}$
- $10 = \dots \text{ Tens}$
- $15 = 1 \text{ Tens } \dots \text{ Ones}$
- $19 = \dots \text{ Tens } 9 \text{ Ones}$

4.12. Comparing and arranging numbers up to 20

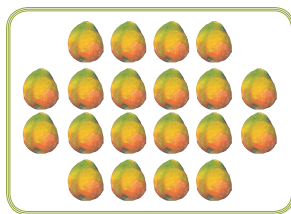


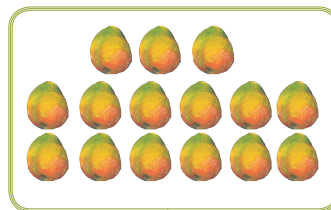
Count objects. Write number.

What is the small/ less number?

What is the great number?

Mangoes





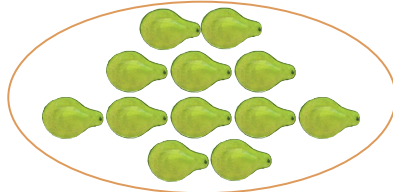


Count and write numbers.

Fill in the box with: $<$, $>$ or $=$.

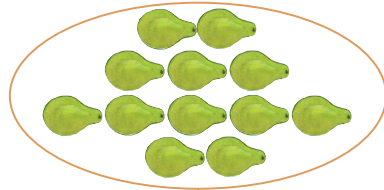
Example:

Avocadoes



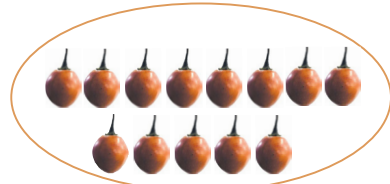
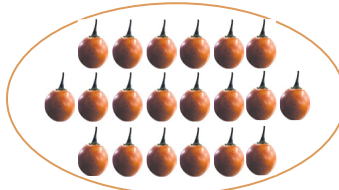
12

$>$

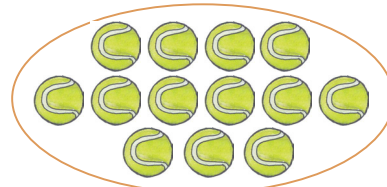
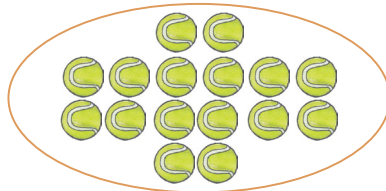


11

Tomato trees



Tennis balls



Fill in with the correct symbol: $>$, $<$ or $=$

Example: 15 19

15 16

11 17

13 13

17 13

20 16

15 11

14 14

19 18

12 18



What number comes before?

 9 10

 13 14

 11 12

 12 13

 5 6

 8 9

 2 3

 14 15

4.13. Addition of numbers



Do these.

Example:

Cars

+ =

$18 + 1 = \square$

$2 + 14 = \square$

$17 + \square = 20$

$2 + 14 = \square$

$14 + 4 = \square$

$\square + 6 = 10$

$14 + 4 = \square$

$18 + 1 = \square$

$\square + 14 = 20$

$12 + 7 = \square$

$13 + 5 = \square$

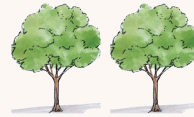
$8 + 0 = \square$



Do these.



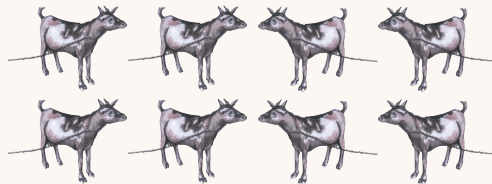
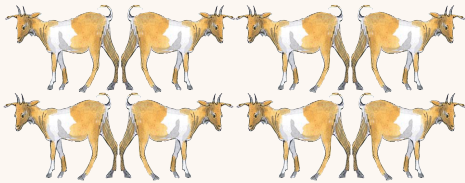
Teta planted 10 trees



Tito planted 2 trees

The number of all planted trees is

Muhire has 8 goats



Keza gives to him 8 more goats

Muhire has goats all together

4.14. Subtraction of numbers

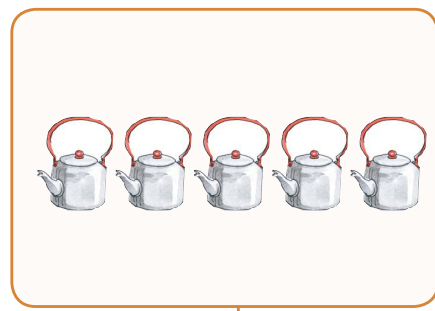


Count and take away.

Write the correct number.

Example:

Kettles



17-12

=

5

Butteflies

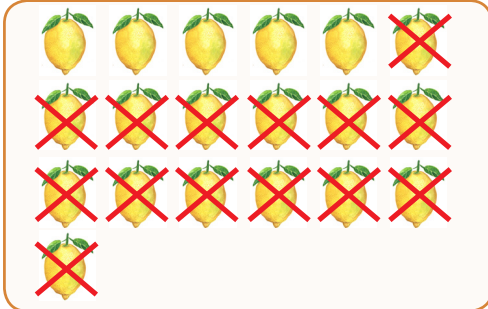


$$18 - 4$$

=

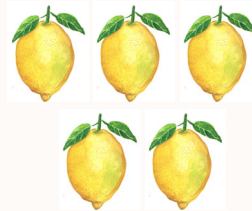


Lemon fruits



$$19 - 14$$

=



Do these.

$$18 - 2 = \square$$

$$9 - 7 = \square$$

$$15 = \square - 5$$

$$17 - 1 = \square$$

$$19 - 4 = \square$$

$$\square - 1 = 14$$

$$18 - 17 = \square$$

$$18 - \square = 7$$

$$17 - \square = 14$$



Do these.

Giramata has 15 doves

Ten doves have eggs.

How many doves do not have eggs?



Marthe buys 20 avocados.

Fifteen avocados are ripe.

Find the number of unripe avocados.



End unit assessment

1. Find the number before, between or after

BEFORE

8	←	9
○	←	15
○	←	20
○	←	18
○	←	12
○	←	7

BETWEEN

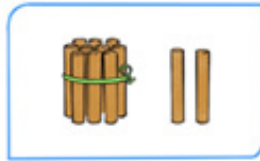
10	11	12
14	○	16
5	○	7
13	○	15
8	○	10
16	○	18

AFTER

19	→	20
13	→	○
4	→	○
17	→	○
11	→	○
15	→	○

2. Look at the pictures. Read the numbers. Write them.

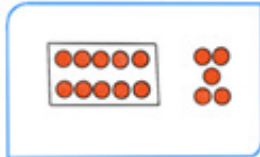
Sticks



$$\boxed{10} + \boxed{2}$$

Number
12

Tomatoes



$$\boxed{10} + \boxed{5}$$

Number

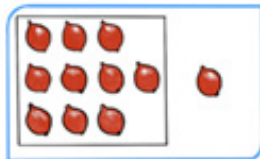
Triangles



$$\boxed{} + \boxed{}$$

Number

Tomato trees



$$\boxed{} + \boxed{}$$

Number

Stars



$$\boxed{} + \boxed{}$$

Number

3. Work out these.

i) $15 - 8 =$

ii) $20 - 5 =$

iii) $15 + 5 =$

iv) $9 + 8 =$

v) $18 - 6 =$

4. Complete with the missing number

i) $19 - \dots\dots\dots = 11$

ii) $7 + \dots\dots\dots = 16$

iii) $0 + \dots\dots\dots = 13$

4. Add and find the missing numbers

$9 + \square = 20$

$7 + \square = 20$

$13 + \square = 20$

$15 + \square = 20$

$11 + \square = 20$

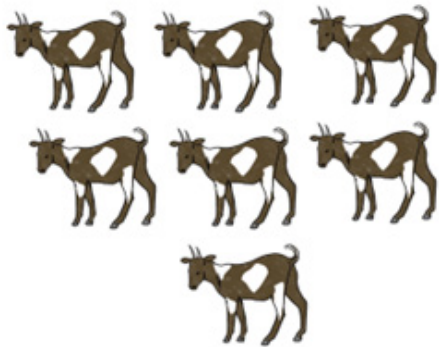
$12 + \square = 20$

$14 + \square = 20$

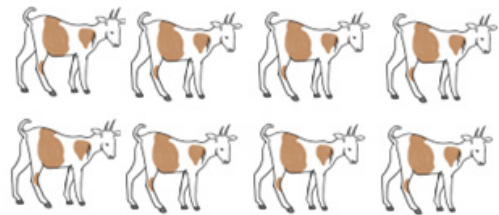
$16 + \square = 20$

5. Do these

Kamana brings 7 goats,



Kabatesi brings 8 goats,

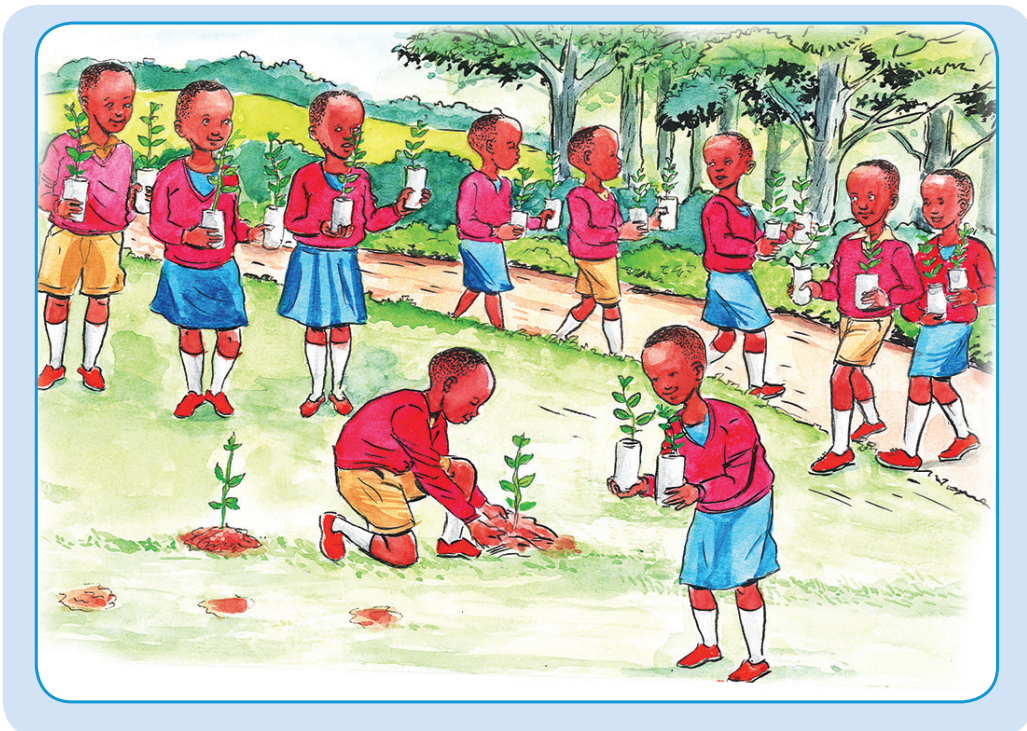


How many goats does Kamana and Kabatesi have?

UNIT 5: MULTIPLICATION AND DIVISION BY 2

5.0. Introductory activity

1. Look at the picture.
2. How many children do you see?
3. How many boys do you see?
4. How many girls do you see?
5. What do the children have in their hands?
6. How many trees does each child have?
7. How many trees do the children have altogether?



5.1. Multiples of 2 up to 20



Look at the pictures.

What is the number of circles on each row?

What is the number of cups on each row?

2 cups  $1 \times 2 = 2$

4 cups  $2 \times 2 = 4$

6 cups  $3 \times 2 = 6$

8 cups  $4 \times 2 = 8$

10 cups  $5 \times 2 = 10$

12 cups  $6 \times 2 = 12$

14 cups  $7 \times 2 = 14$

16 cups  $8 \times 2 = 16$

18 cups  $9 \times 2 = 18$





20 cups  $10 \times 2 = 20$









Look at the table below.

How many pencils on each line?

What is the relationship between addition and multiplication?

$1 \times 2 = 2$		2
$2 \times 2 = 4$		$2 + 2 = 4$
$3 \times 2 = 6$		$2 + 2 + 2 = 6$
$4 \times 2 = 8$		$2 + 2 + 2 + 2 = 8$

$5 \times 2 = 10$		$2+2+2+2+2=10$
$6 \times 2 = 12$		$2+2+2+2+2+2=12$
$7 \times 2 = 14$		$2+2+2+2+2+2+2=14$
$8 \times 2 = 16$		$2+2+2+2+2+2+2+2=16$
$9 \times 2 = 18$		$2+2+2+2+2+2+2+2+2=18$
$10 \times 2 = 20$		$2+2+2+2+2+2+2+2+2+2=20$



Fill in with the missing numbers.

$$2 = 1 \times 2$$

$$10 = \square \times 2$$

$$8 = \square \times 2$$

$$16 = 8 \times \square$$

$$12 = 6 \times \square$$

$$4 = \square \times 2$$

$$20 = \square \times 2$$

$$18 = \square \times 2$$



Fill in the with the missing numbers.

$\times 2$	1	7	9	8	4	2	3	6	5	10
	2	14	.	.	4	.	.	.	.	.



Count in multiples of 2. Help the boy to catch the black hat.



2	10	6	4	2		Grey hat
4	6	8	6	14		Blue hat
20	18	10	10	12		Orange hat
20	18	12	10	8		Green hat
2	16	14	16	6		Yellow hat
2	10	8	18	20		Black hat



Do this.

1 dove haslegs



5 doves havelegs altogether


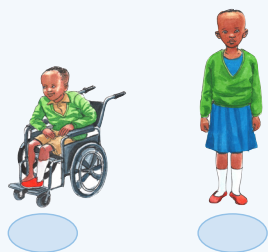


5.2. Exact division by 2



Look at the pictures.

Write the equal shares for each child.

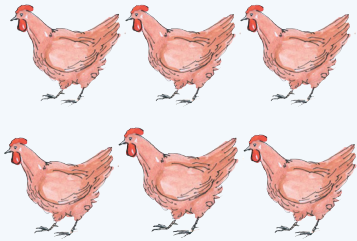
Number of objects	Equals shares	Division by 2
 2 mangoes		$2 \div 2 = 1$



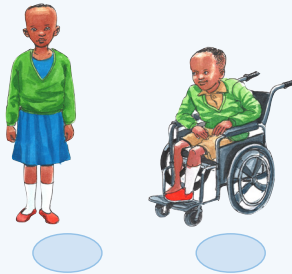
4 pens



$$4 \div 2 = \dots$$



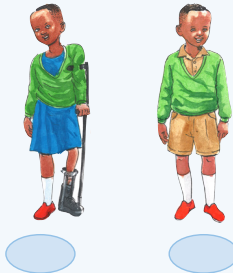
6 hens



$$6 \div 2 = \dots$$



10 sweets



$$10 \div 2 = \dots$$



Fill in with the correct number.

$$2 \div 2 = \boxed{1}$$

$$12 \div 2 = \boxed{}$$

$$8 \div 2 = \boxed{}$$

$$18 \div 2 = \boxed{}$$

$$10 \div 2 = \boxed{}$$

$$20 \div 2 = \boxed{}$$



Look at the example

Match the question with the answer

1	$12 \div 2 =$	4
6	$10 \div 2 =$	5
10	$8 \div 2 =$	2
7	$2 \div 2 =$	3
9	$6 \div 2 =$	8
	$20 \div 2 =$	
	$4 \div 2 =$	
	$14 \div 2 =$	
	$16 \div 2 =$	
	$18 \div 2 =$	



Fill in with the missing numbers.

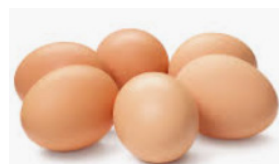
$\div 2$	4	6	12	8	14	20	16	18	2	10
	2	.	.	.	.	10	.	.	.	.



Do this.

Mummy has 6 eggs. My mammy shares them equally to 2 children.

Every child gets.....eggs.





End unit assessment

1. work out these

a) $2 \times 3 =$

b) $2 \times 8 =$

c) $10 \div 2 =$

d) $18 \div 2 =$

2. Do these

i) Nine children plant trees.

Every child plants 2 trees.

How many trees do they plant altogether?



ii) Mico has 16 oranges.

He equally divides them to 2 children.

How many oranges does each child get?



UNIT 6: NUMBERS FROM 0 UP TO 50

6.0. Introductory activity

1. Look at the picture.
2. What do you see?
3. How many bars of soap are in the shop?
4. How many notebooks are in the shop?
5. How many people are in the shop?

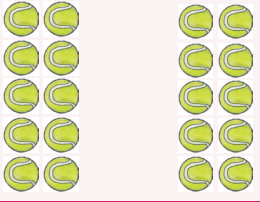

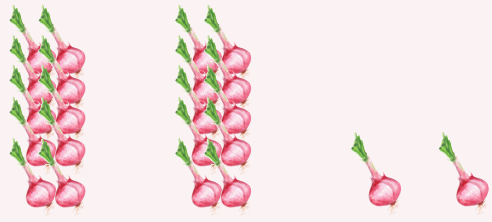
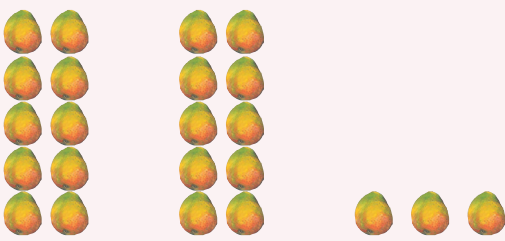

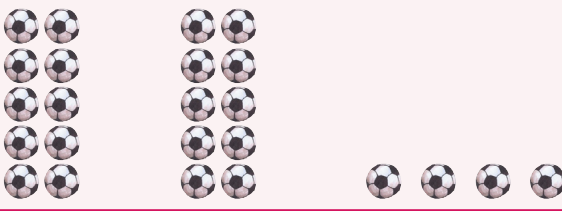

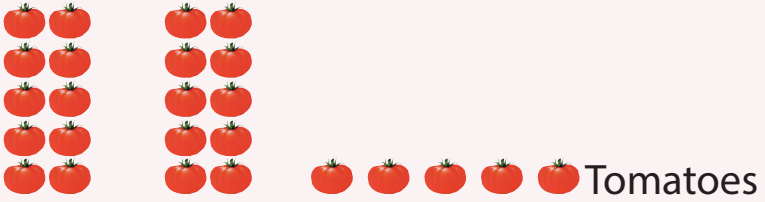



6.1. Numbers from 21 up to 25



Count objects.

Read the number

  Tennis balls	<p>21</p> <p>Twenty - one</p>
 <p>Onions</p>	<p>22</p> <p>Twenty - two</p>
  Mangoes	<p>23</p> <p>Twenty - three</p>
  Balls	<p>24</p> <p>Twenty - four</p>
  Tomatoes	<p>25</p> <p>Twenty - five</p>



Write these numbers

21 21

22 22



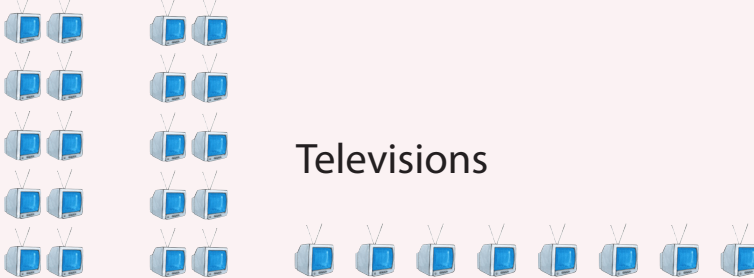

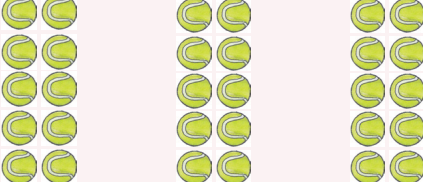
23 23
 24 24
 25 25

6.2. Numbers from 26 up to 30



Count objects.

Read the number

 <p>Pencils</p>	<p>26 Twenty - six</p>
 <p>Radios</p>	<p>27 Twenty - six</p>
 <p>Televisions</p>	<p>28 Twenty - eight</p>
 <p>Telephones</p>	<p>29 Twenty - nine</p>
 <p>Tennis balls</p>	<p>30 Thirty</p>



Write these numbers

26 26

27 27

28 28

29 29





30 30

6.3. Numbers from 31 up to 35



Count objects.

Read the number

 <p>Spoons</p>	<p>31 Thirty - one</p>
 <p>Blue cups</p>	<p>32 Thirty - two</p>
 <p>Forks</p>	<p>33 Thirty - three</p>
 <p>Shorts</p>	<p>34 Thirty - four</p>
 <p>Tennis balls</p>	<p>35 Thirty - four</p>



Write these numbers





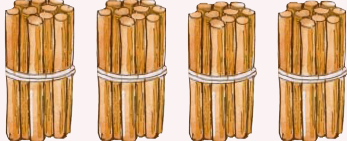
31 31
 32 32
 33 33
 34 34
 35 35

6.7. Numbers from 36 up to 40



Count objects.

Read the number

 <p>Flowers</p>	<p>36 Thirty - six</p>
 <p>Onions</p>	<p>37 Thirty - seven</p>
 <p>Telephones</p>	<p>38 Thirty - eight</p>
 <p>Pencils</p>	<p>39 Thirty - nine</p>
 <p>Sticks</p>	<p>40 Forty</p>



Write these numbers


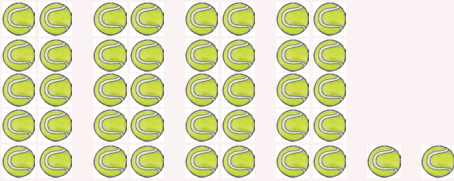
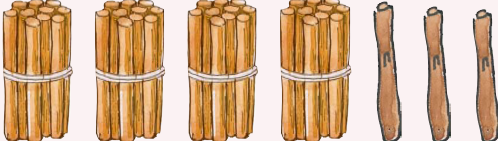
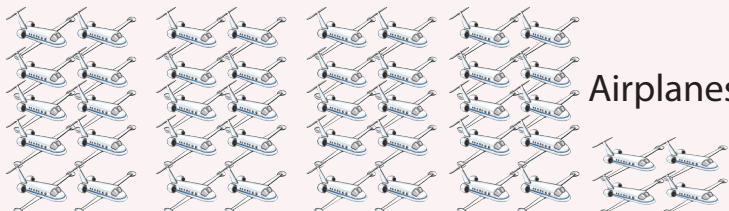

36	36	....	....	....	....	....	....	....	....	....
37	37	....	....	....	....	....	....	....	....	....
38	38	....	....	....	....	....	....	....	....	....
39	39	....	....	....	....	....	....	....	....	....
40	40	....	....	....	....	....	....	....	....	....

6.7. Numbers from 41 up to 45



Count objects.

Read the number

 <p>Footballs</p>	<p>41 Forty - one</p>
 <p>Tennis balls</p>	<p>42 Forty - two</p>
 <p>Sticks</p>	<p>43 Forty - three</p>
 <p>Airplanes</p>	<p>44 Forty - four</p>
 <p>Tomatoes</p>	<p>45 Forty - five</p>



Write these numbers

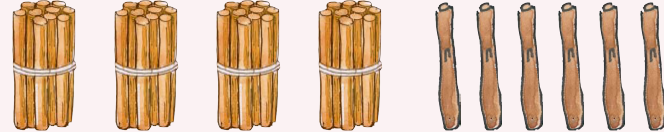


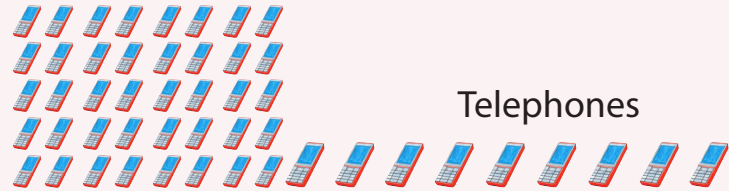
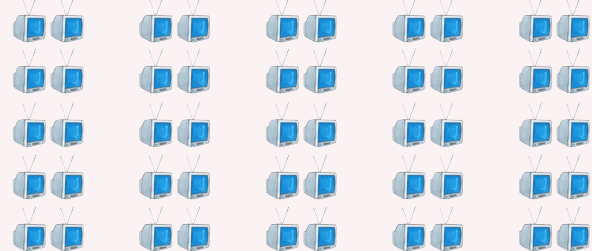
41	41	....	....	....	....	....	....	....	....	....
42	42	....	....	....	....	....	....	....	....	....
43	43	....	....	....	....	....	....	....	....	....
44	44	....	....	....	....	....	....	....	....	....
45	45	....	....	....	....	....	....	....	....	....

6.8. Numbers from 46 up to 50



Count objects.

Read the number

 <p>Sticks</p>	<p>46 Forty - six</p>
 <p>Pencils</p>	<p>47 Forty - seven</p>
 <p>Onions</p>	<p>48 Forty - eight</p>
 <p>Telephones</p>	<p>49 Forty - nine</p>
 <p>Televisions</p>	<p>50 Fifty</p>



Write these numbers

46 46
 47 47
 48 48
 49 49
 50 50



Read the numbers from 1 up to 50

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

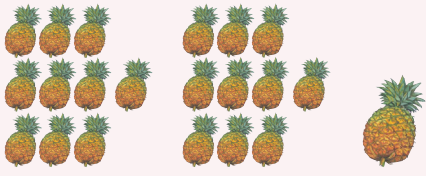
6.9. Tens and ones in a 2-digit number.




Count the pineapples.

How many tens?

How many single pineapples?

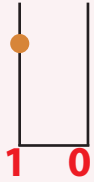
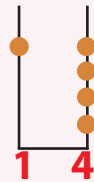
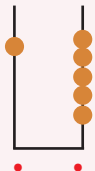
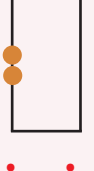
Pineapples	Number of tens	Single pineapples
 <p>10 10 1</p>	2 Tens	1 pineapple

 10 10 10 1	.....Tens	.....pineapple
 10 10 10 10 1	.....Tens	.....pineapple
 10 10 10 10 10	.....Tens	.....pineapple



Look at the examples.

Fill in the correct number.

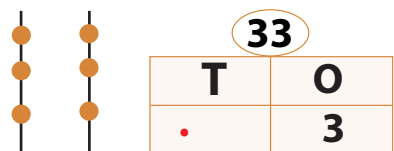
Example tens ones  1 0	Example tens ones  1 4
tens ones  . .	tens ones  . .

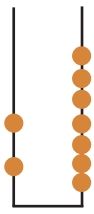


Look at the example.

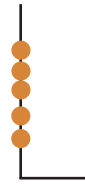
Fill in the correct number.

Example





27	
T	O
2	.



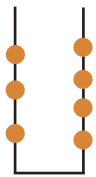
50	
T	O
.	.



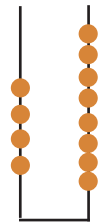
Look at the example.

Fill in the missing number.

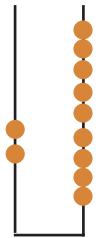
Example



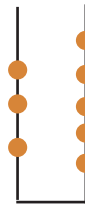
34	
Tens	Ones
3	4



...8	
Tens	Ones
4	8



2...	
T	O
2	9



...	
T	O
3	5



Look at the example.

Fill in the correct numbers.

Example

$$46 = 4 \text{ tens } 6 \text{ ones}$$

$$32 = \dots \text{ tens } \dots \text{ ones}$$

$$40 = \dots \text{ tens } \dots \text{ ones}$$

$$50 = \dots \text{ tens}$$

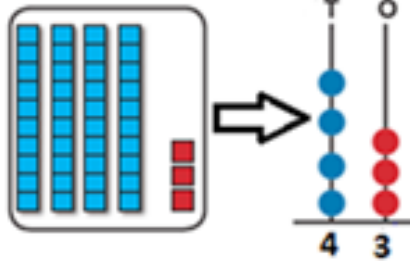
$$25 = 2 \text{ tens } \dots \text{ ones}$$

$$49 = \dots \text{ tens } 9 \text{ ones}$$

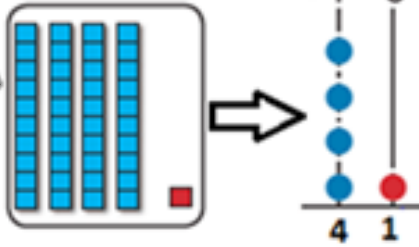


Match the value with the picture

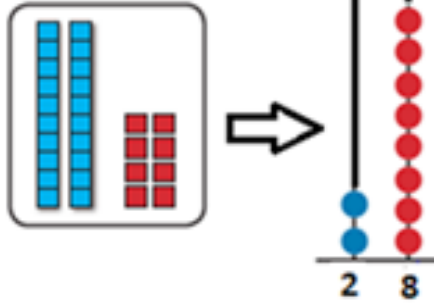
3 tens
4 tens



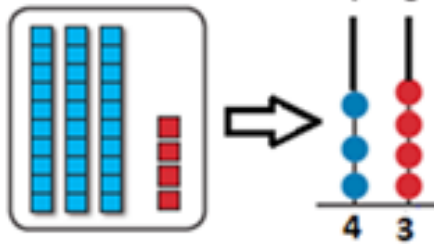
2 tens
8 tens



4 tens
1 tens



4 tens
3 tens



6.10. Comparing and arranging numbers up to 50

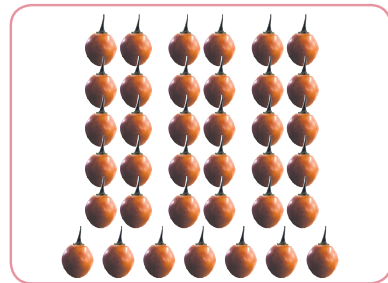
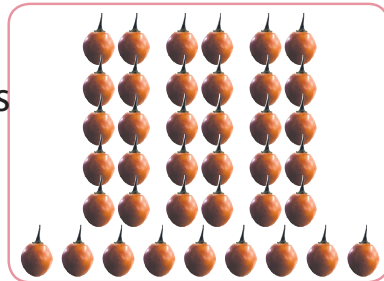


Count objects. Write number.

What is the smaller number?

What is the greater number?

Tomato trees

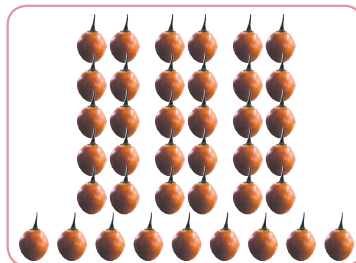


Count and write numbers.

Fill in the box with: $<$, $>$ or $=$

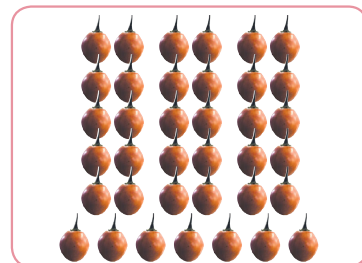
Example:

Tomato trees



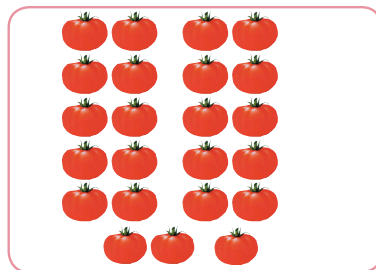
39

$>$

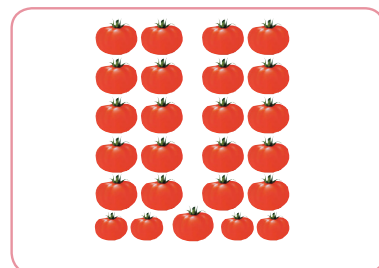


37

Tomatoes



23



25



Fill in with the correct symbol: $>$, $<$ or $=$

Example:

35	$<$	36
48	$>$	42
29	$=$	29

37	<input type="text"/>	23
31	<input type="text"/>	47
23	<input type="text"/>	23

24	<input type="text"/>	34
50	<input type="text"/>	46
45	<input type="text"/>	31

24	<input type="text"/>	34
50	<input type="text"/>	46
45	<input type="text"/>	31



Arrange from the smallest to the biggest number.

39	47	50	21
<input type="text" value="21"/>	<input type="text" value="....."/>	<input type="text" value="....."/>	<input type="text" value="....."/>



Arrange from the biggest to the smallest number.

32	29	31	46	24
<input type="text" value="46"/>	<input type="text" value="....."/>	<input type="text" value="....."/>	<input type="text" value="....."/>	<input type="text" value="....."/>

6.9. Addition of numbers

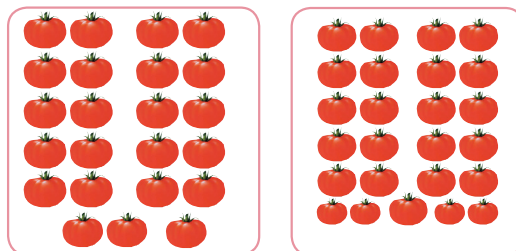


Look at the example.

Add numbers.

Example:

Tomatoes



$$23 + 25 = 48$$

Tens	Ones
2	3
2	5
4	8

	Tens	Ones
	3	2
+	1	6
	.	.

	Tens	Ones
	1	8
+	2	1
	.	.

	Tens	Ones
	2	4
+	2	1
	.	.

	Tens	Ones
	3	0
+	1	5
	.	.



Fill in with the missing numbers.

$28 + 1 = \square$

$22 + 17 = \square$

$30 = 27 + \square$

$8 + 14 = \square$

$33 + 15 = \square$

$\square + 15 = 25$

$$\begin{array}{r} 14 \\ +10 \\ \hline \end{array}$$

.....

$$\begin{array}{r} 25 \\ +24 \\ \hline \end{array}$$

.....



Do this

Kayitesi buys 40 notebooks for Kayisire and 10 notebooks for Keza.



Kayitesi buysnotebooks altogether.

40 notebooks for Kayisire



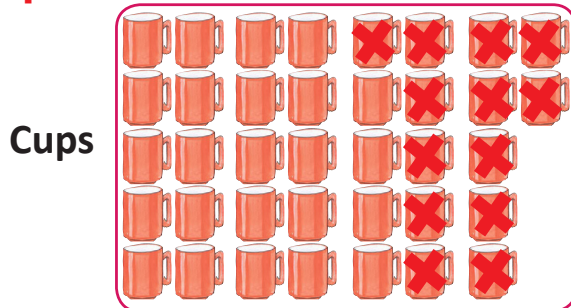
10 notebooks for Keza

6.10. Subtraction of numbers



Look at the example.
Subtract numbers.

Example:



$$37 - 13 = 24$$

Tens	Ones
3	7
- 1	3
2	4

Tens	Ones	Tens	Ones	Tens	Ones	Tens	Ones
4	7	2	5	4	6	4	0
- 2	3	- 2	2	- 2	2	- 2	0
.



Subtract these numbers.

$$28 - 2 = \square$$

$$29 - 17 = \square$$

$$49 - 4 = \square$$

37	48
<u>-10</u>	<u>-17</u>
.....



Fill in the missing numbers.

$$\square - 10 = 14$$

$$47 - \square = 34$$

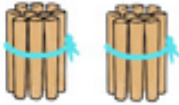

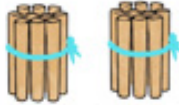

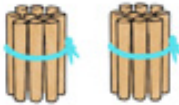

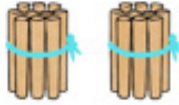

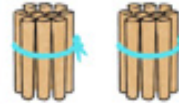

$$38 - \square = 28$$

$$45 = \square - 5$$



End unit assessment

1. Count the bundles of sticks and the single sticks.
Write the number. Say how many tens and ones.

 20 +  6 = 26	Tens ones 2 6
 20 +  7 = <input type="text"/>	Tens ones <input type="text"/> <input type="text"/>
 20 +  8 = <input type="text"/>	Tens ones <input type="text"/> <input type="text"/>
 20 +  9 = <input type="text"/>	Tens ones <input type="text"/> <input type="text"/>
 20 +  10 = <input type="text"/>	Tens ones <input type="text"/> <input type="text"/>

2. Find the missing number.

i) $22 + 17 = \dots$

iv) $37 - 21 = \dots$

ii) $\dots + 20 = 30$

v) $45 - \dots = 32$

iii) $23 + \dots = 45$

vi) $\dots - 28 = 22$

3. Use the table of place values. Verify if the comparison of numbers is correct.

i) $36 > 28$

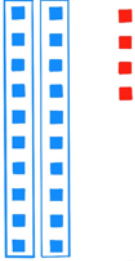
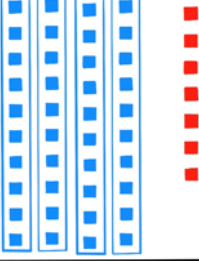
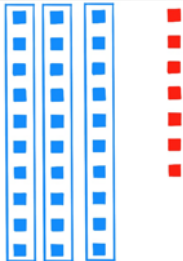
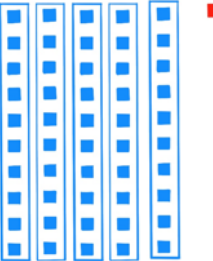

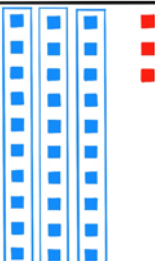
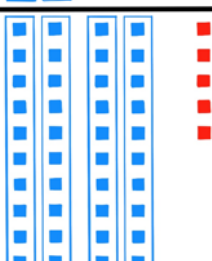

ii) $45 = 45$

iii) $27 < 29$

4. Fill in the table below:

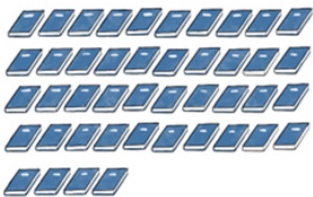
Number	Words	Picture	Expanded Form
12	<u>1</u> tens <u>2</u> ones		$\boxed{10} + \boxed{2} = \boxed{12}$
18	<u> </u> tens <u>8</u> ones		$\text{---} + \text{---} = \text{---}$
	<u> </u> tens <u> </u> ones		$\text{---} + \text{---} = \text{---}$
	<u> </u> tens <u> </u> ones		$\text{---} + \text{---} = \text{---}$
	<u> </u> tens <u> </u> ones		$\text{---} + \text{---} = \text{---}$
	<u> </u> tens <u>6</u> ones		$40 + \text{---} = \text{---}$
56	<u> </u> tens <u> </u> ones		$\text{---} + \text{---} = \text{---}$

5. Count and write tens and ones

1. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones			5. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones		
tens	ones										
tens	ones										
2. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones			6. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones		
tens	ones										
tens	ones										
3. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones			7. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones		
tens	ones										
tens	ones										
4. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones			8. 	<table border="1"><tr><th>tens</th><th>ones</th></tr><tr><td> </td><td> </td></tr></table> _____	tens	ones		
tens	ones										
tens	ones										

6. Do these

Mary buys 50 notebooks



How many notebooks does Mary remain with?



Mary gives 16 notebooks to Anitha

UNIT 7: NUMBERS FROM 0 UP TO 100

7.0. Introductory activity

1. Look at the picture.
2. What do you see?
3. How many pencils do you see?



7.1. Numbers from 51 up to 60



Count objects.

Read the number

 Sticks	50 Fifty - one
 Sticks	60 Sixty



Write these numbers

51 51
 52 52
 53 53
 54 54
 57 57
 60 60



Fill in with the missing numbers.

51	52	53	54	.	.	57	.	.	60
----	----	----	----	---	---	----	---	---	----

7.2. Numbers from 61 up to 70



Count objects.

Read the number.

 Bananas	70 Seventy
---	---------------



Write these numbers

61 61
 62 62
 68 68
 69 69
 70 70



Fill in with the missing numbers.

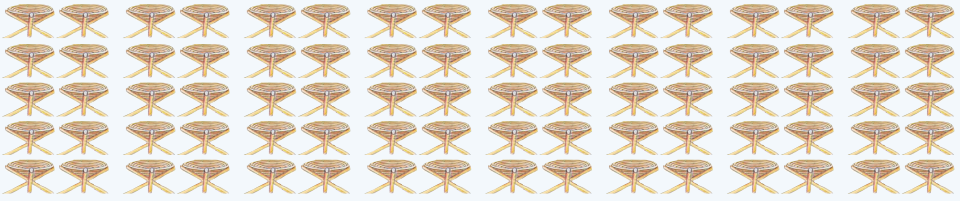
61	62	68	69	60
----	----	---	---	---	---	---	----	----	----

7.2. Numbers from 71 up to 80



Count objects.

Read the number.

	<p>80</p> <p>Eight</p>
Stools	



Write these numbers

71	71	....	....	....	....	....	....	....	....	....
79	79	....	....	....	....	....	....	....	....	....
80	80	....	....	....	....	....	....	....	....	....



Fill in with the missing numbers.

71	79	80
----	---	---	---	---	---	---	---	----	----

7.3. Numbers from 81 up to 90



Count objects.

Read the number.

	<p>90 Ninety</p>
Matches	



Write these numbers

91 91

99 99



Fill in with the missing numbers.

91	99
----	---	---	---	---	---	---	---	----


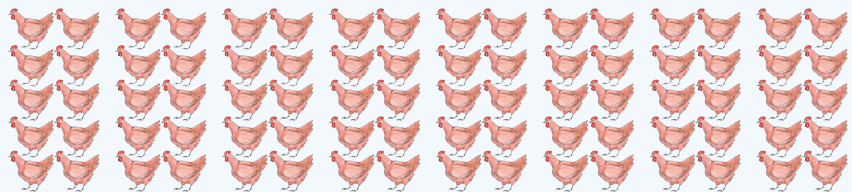

7.4. Tens and ones in a 2-digit number.



Count objects.

Write the number of tens.

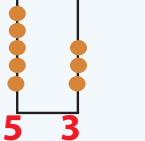
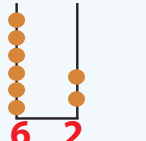
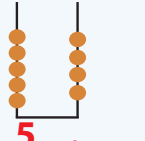
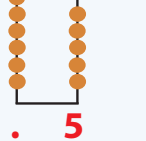
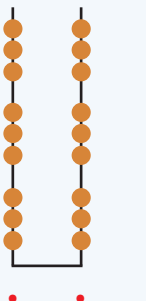
	<p>6 Tens</p>
Cocks	

 <p>Cars</p>	... Tens
 <p>Hens</p>	... Tens
 <p>Tins</p>	... Tens



Look at the examples.
Fill in the correct number.

Example

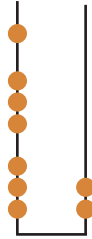
<p>Tens Ones</p> 	<p>Tens Ones</p> 
<p>Tens Ones</p> 	<p>Tens Ones</p> 
<p>Tens Ones</p> 	



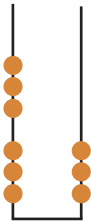
Look at the examples.

Fill in the missing number.

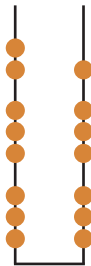
Example



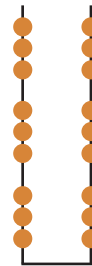
72	
Tens	Ones
7	2



63	
Tens	Ones
.	3



87	
Tens	Ones
8	.



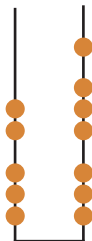
99	
Tens	Ones
.	.



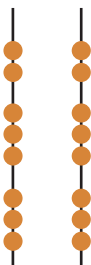
Look at the example.

Fill in the missing number.

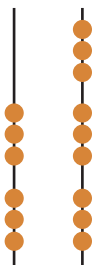
Example



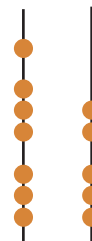
57	
Tens	Ones
5	7



...8	
Tens	Ones
8	8



6...	
Tens	Ones
6	9



...	
Tens	Ones
7	5



Look at the example.

Fill in the missing number.

Example: $76 = 7$ tens 6 ones

82 = ...tens ...ones

90 = ...tens ...ones

58 = ...tens ...ones

55 = 5 tens ...ones

69 = ...tens ...ones

7.5. Comparing and arranging numbers up to 99



Look at the examples.

Compare numbers with $<$, $>$ or $=$

Example

61 = 61

81 < 87

95 > 91

58 58

54 45

65 65

96 99

74 88

85 71

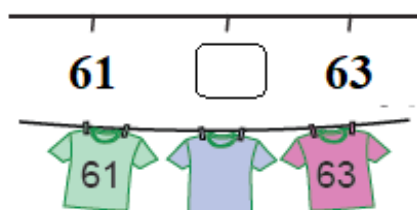
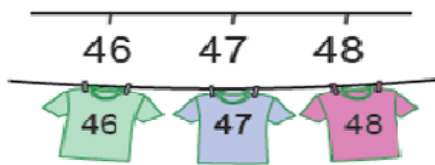
77 83

50 66



Say the number which is before, between or after

Example:



Example:

47 is between 46 and 48

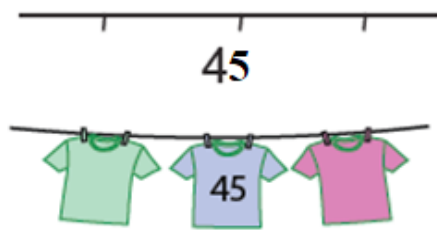
47 comes before 48

47 comes after 46

..... is between 61 and 63

..... comes before 63

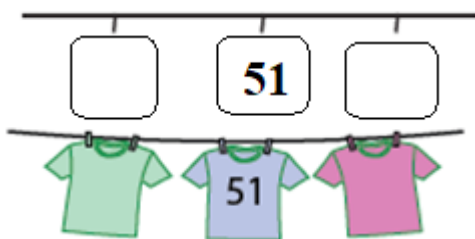
..... comes after 61



45 is between.....and
.....

45 comes before

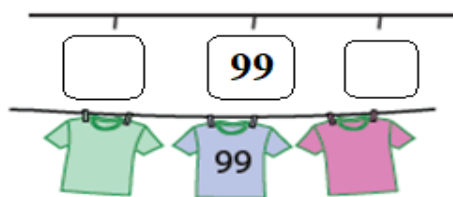
45 comes after



51 is between.....and
.....

51 comes before

51 comes after



99 is between.....and
.....

99 comes before

99 comes after



Arrange from the smallest to the biggest number.

89

87

80

81

80

.....

.....

.....



Arrange from the biggest to the smallest number.

99

59

79

89

69

80

.....

.....

.....

.....



Read the numbers from 1 up to 100

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

7.6. Addition of numbers



Look at the example.

Add numbers.

Examples:

Tens	Ones
6	2
+	1
7	5

Tens	Ones
7	3
+	2
9	4

Tens	Ones
6	4
+	3
.	.

Tens	Ones
3	5
+	2
.	.

Tens	Ones
7	7
+	2
.	.

Tens	Ones
8	5
+	1
.	.



Add these numbers.

$88 + 1 = \square$

$32 + 47 = \square$

$60 = 47 + \square$

$6 + 52 = \square$

$63 + 35 = \square$

$34 + 35 = \square$

$14 + 50 = \square$



Arrange from the smallest to the biggest number.

$\square + 15 = 55$

$60 = 47 + \square$

$\square + 14 = 50$

$87 + \square = 90$

$34 + \square = 35$



Do these

- Janet plants 23 flowers on Tuesday.
- Janet plants 30 flowers on Wednesday.
- How many flowers does Janet plant altogether?



7.7. Subtraction of numbers



Count and take away.
Write the number.

Example

	60
Batches of bananas	

Dresses	



Look at the example.
Subtract numbers.

Example:

Tens	Ones
7	6
2	4
5	2

Tens	Ones
8	5
4	1
4	4

Tens	Ones
8	4
- 2	- 4
.	.

Tens	Ones
9	8
- 4	- 7
.	.

Tens	Ones
6	7
- 2	- 3
.	.

Tens	Ones
9	8
- 2	- 3
.	.



Subtract these numbers.

$80 - 10 = \square$

$59 - 17 = \square$

$89 - 40 = \square$

$67 - 15 = \square$

$68 - 57 = \square$



Fill in the missing numbers.

$\square - 10 = 40$

$90 - \square = 70$

$38 - \square = 28$

$5 = \square - 85$



End unit assessment

1. Work out these

i) $34 + 21 =$

ii) $63 + \square = 99$

iii) $87 - 41 =$

iv) $55 - \square = 32$

v) $\square - 24 = 35$

2. Complete with the correct symbol ($<$, $>$, $=$)

i) $61 \square 57$

ii) $12 + 24 \square 36$

3. Order from smallest to the biggest number

60	35	51	57
...

4. Find the numbers of ones and tens

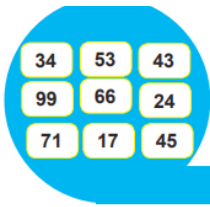
i) $76 = \dots \text{tens} \dots \text{ones}$

ii) $5 \text{ tens } 3 \text{ ones} = \dots$

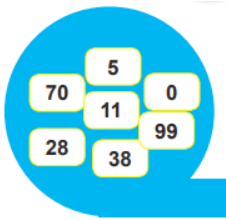
5. Look at the number values below. Fill in the missing numbers

Example	.....	.....	.....
$\underline{\quad} 46 \underline{\quad}$			

6. Order these numbers from the smallest.

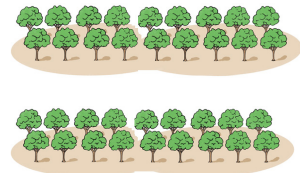


7. Order these numbers from the biggest.

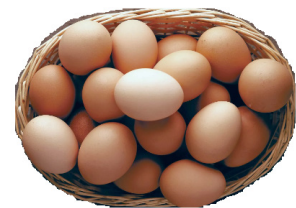


8. Do these

- A
- Muneza plants 45 trees on Monday.
 - On Thursday Murenzi plants 23 trees.
 - How many trees does Murenzi plant altogether?



- B
- Judith has 58 eggs.
 - Judith sells 25 eggs.
 - How many eggs does Judith remain with?



UNIT 8: FRACTIONS $\frac{1}{2}$ AND $\frac{1}{4}$

8.0. Introductory activity

1. Look at the picture.
2. What do you see?
3. How many full oranges do you see?
4. How many parts of oranges do you see?

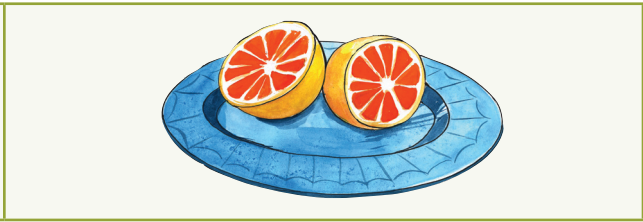
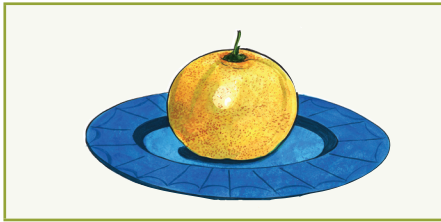


How many tomatoes?

How many oranges?

How many equal parts?

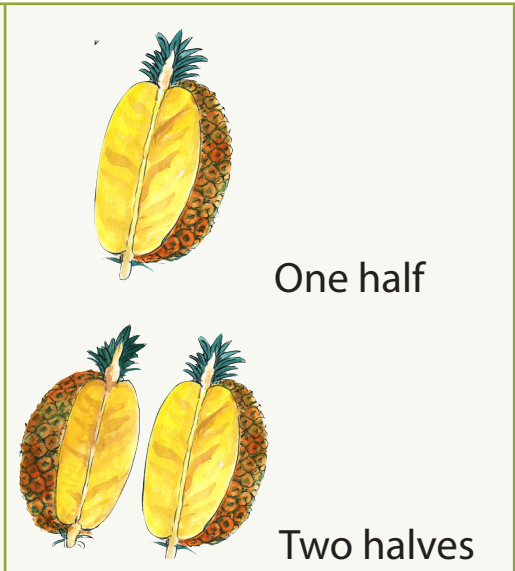
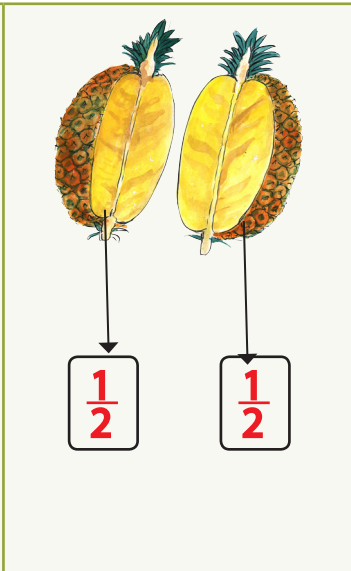




Look at the pictures.

Count parts of a pineapple.

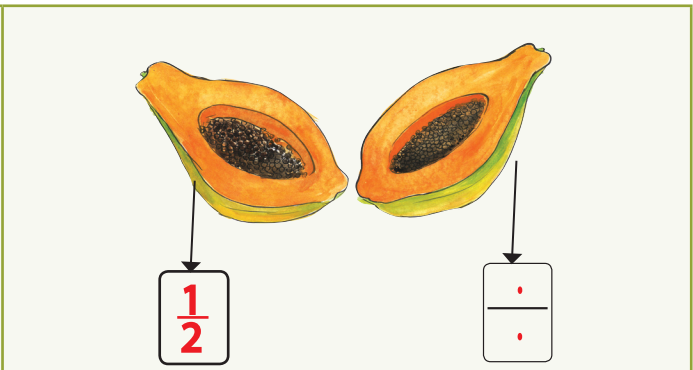
Read the fraction $\frac{1}{2}$



Look at the pictures.

Count parts of a pawpaw.

Fill in the blanks with 1 and 2.





Write the fraction $\frac{1}{2}$

$\frac{1}{2}$ $\frac{1}{2}$



Look at the fraction $\frac{1}{2}$

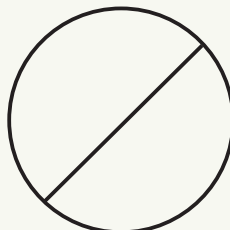
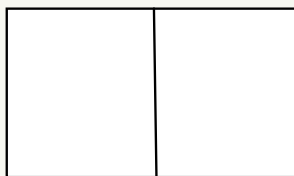
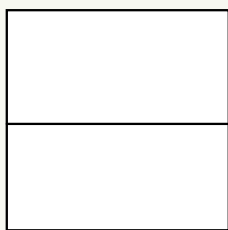
What are the parts of the fraction $\frac{1}{2}$?

$$\frac{1}{2}$$

→ Numerator
→ Denominator




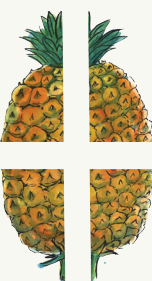

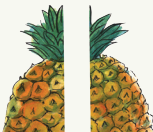
Shade the fraction $\frac{1}{2}$

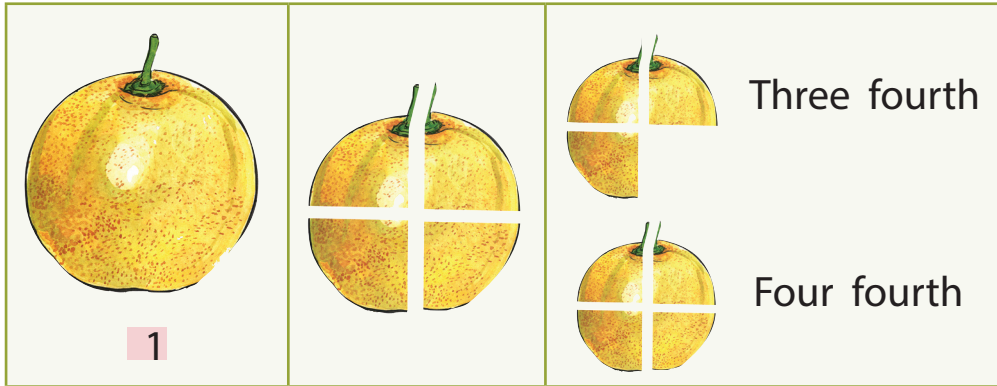


How many pineapples?

How many oranges?

How many equal parts?

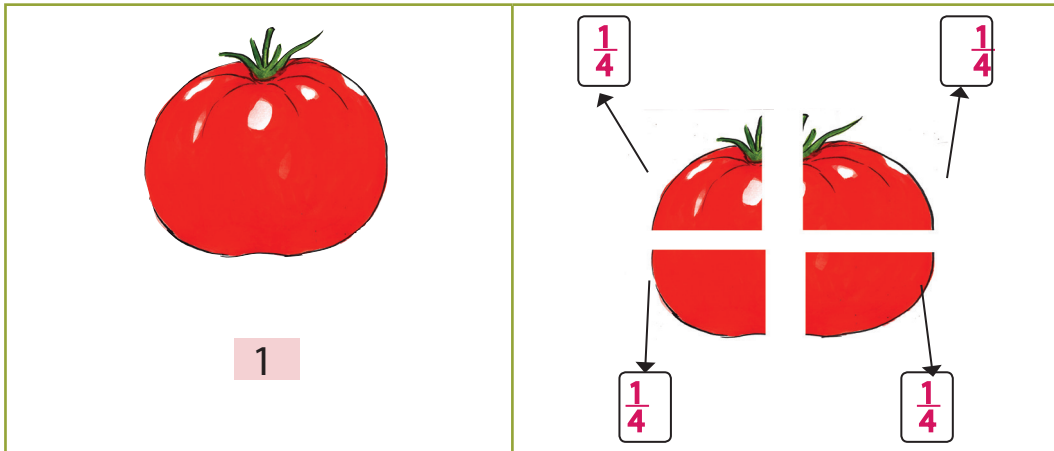
			One fourth
1			Two fourth



Look at the pictures.

Count parts of a tomato.

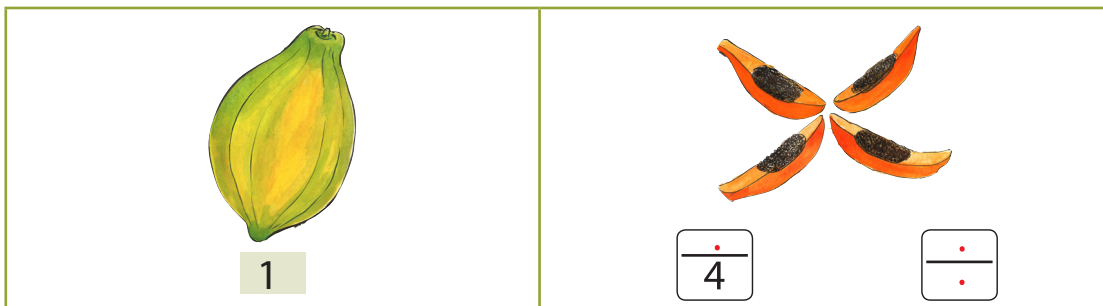
Read the fraction $\frac{1}{4}$



Look at the pictures.

Count parts of a pawpaw.

Fill in the blanks with 1 and 4 .





Write the fraction $\frac{1}{4}$

$\frac{1}{4}$ $\frac{1}{4}$



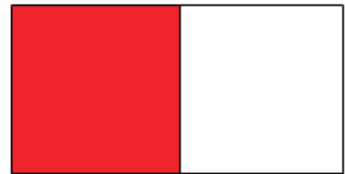
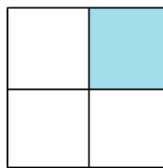
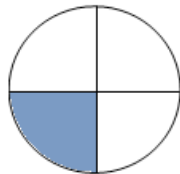
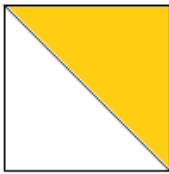
Look at the fraction $\frac{1}{4}$

What are parts of the fraction $\frac{1}{4}$?

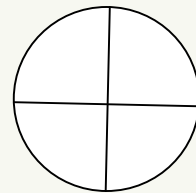
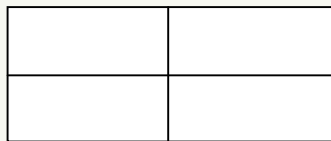
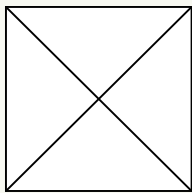
$\frac{1}{4}$	→	Numerator
$\frac{1}{4}$	→	Denominator



What is the fraction of the shaded part?

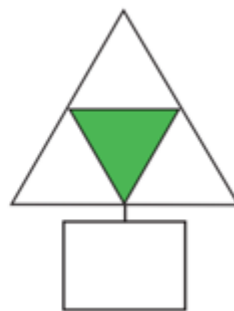
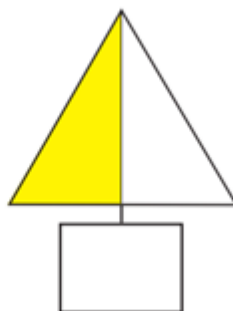
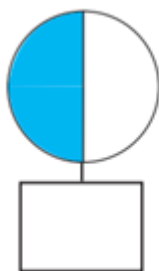
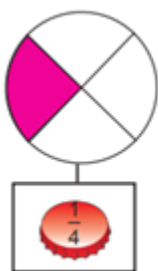


Shade the fraction $\frac{1}{4}$



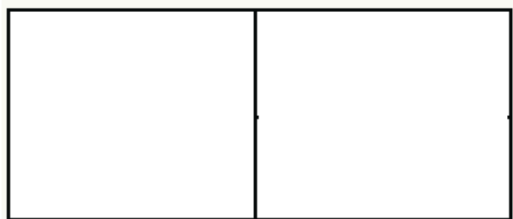
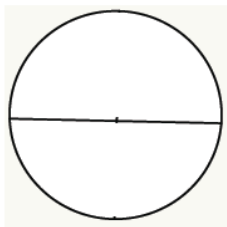


What is the fraction of the shaded part?

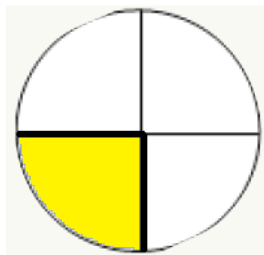
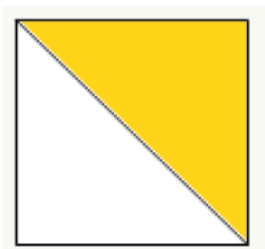


End unit assessment

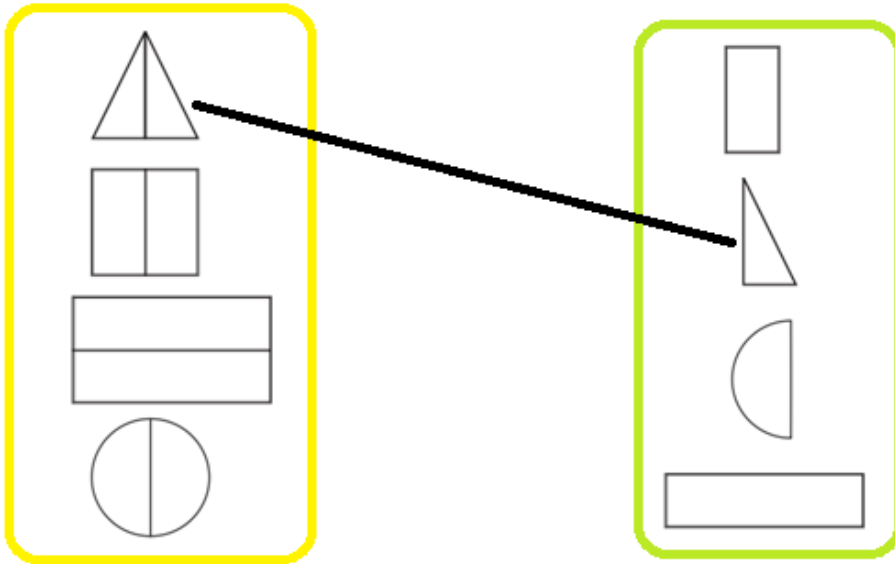
1. Shade and show $\frac{1}{2}$



2. Write a fraction of the shaded part.

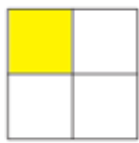


3. Match each shape with its half

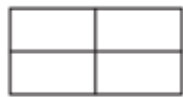


4. Shade halves or quarters. Write and read the fraction you get.

Example:



$$\frac{1}{4}$$



.....



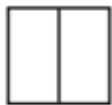
.....



.....



.....



.....



.....



.....

UNIT 9: NUMBER PATTERNS

9.0. Introductory activity

1. Look at the picture.
2. What do you see?
3. How many avocados do you see on each row?



9.1. Concept of a number pattern with addition







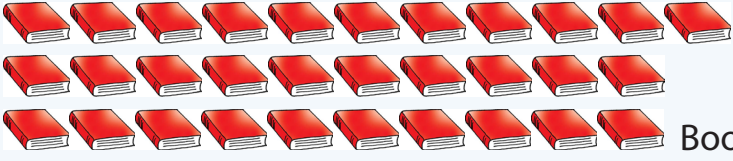
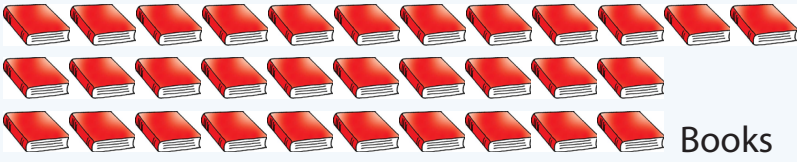
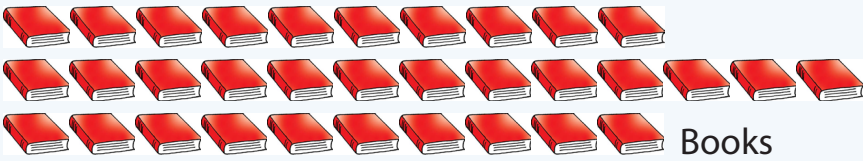
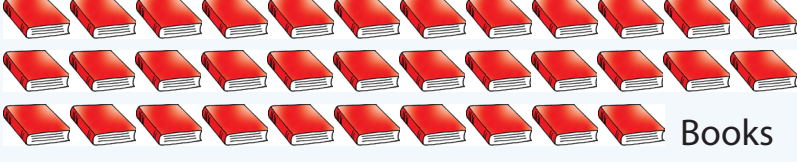
Look at the example.

Count objects.

Fill in the blanks with the missing number.

Example:

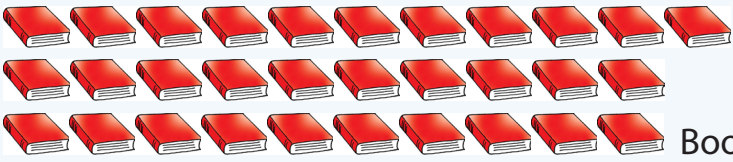
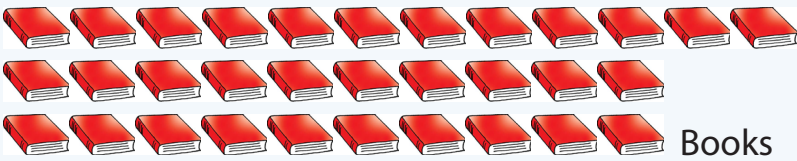
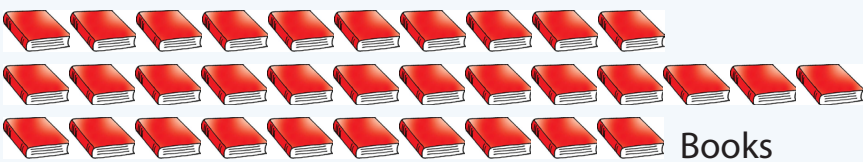
	
	
	
 Books	30

 <p>Books</p>	.
 <p>Books</p>	.
 <p>Books</p>	.
 <p>Books</p>	34



Count objects.

Write the missing numbers.

 <p>Books</p>	.
 <p>Books</p>	.
 <p>Books</p>	.



Look at the example.

Fill in the blanks with the missing numbers.

Example: add 1

1	2	3	4	5	6	7	8	9	10
11	12	...	...	15	16	...	...	...	20
21	...	23	...	...	...	...	28	...	30
31	...	...	...	...	...	...	...	39	40
41	42	43	44	45	...	...	...	...	50
51	52	53	54	55	...	...	...	...	...
61	...	...	...	...	...	...	...	...	70
71	...	...	...	75	...	...	...	...	80
...	82	...	84	...	...	87	...	...	...
91	...	...	...	...	...	...	...	...	100



Add.

Fill in the missing numbers.

+2	1	2	3	4	5	6	7	8	9	10
	3	4	5	6	.	.	.	.	.	.

+3	20	22	24	26	28	30	32	34	36	38	40
	23	.	.	.	.	.	.	.	.	.	.



Fill in the missing number.

+...	20	25	30	35	40	45	50	55	60	65	70
	25	30	35	40	45	50	55	60	65	70	75

9.2. Number pattern with addition and common difference

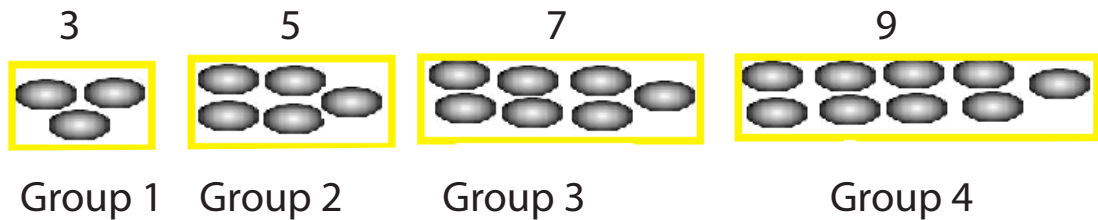


Look at the groups of objects.

How many objects are in each group?

What is the difference between group 1 and 2?

What is the difference between group 2 and 3?



Find the number pattern.

Fill in the blanks with the missing numbers.

2	4	...	8	...	...	14	16	...	20
5	8	11	...	17	20	...	...	29	32
5	10	...	20	...	30	35	...	...	50
10	20	30	40	...	...	...	...	...	100

9.3. Number pattern with Subtraction and common difference

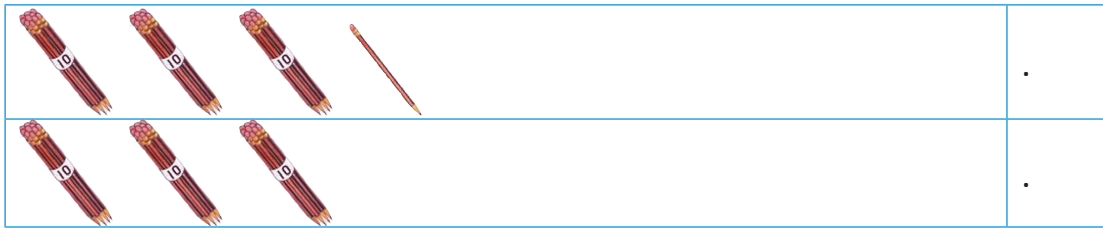


Look at the example.

Count objects.

Fill in the blanks with the missing number.

	33
	32

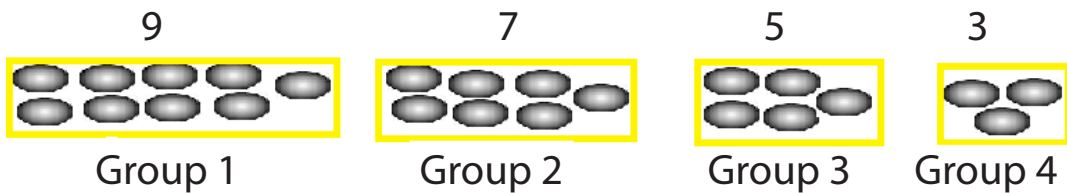


Look at the groups of objects.

How many objects are in each group?

What is the difference between group 1 and 2?

What is the difference between group 2 and 3?



Look at the example.

Find the number pattern.

Fill in the blanks with the missing numbers.

Example: Subtract 1

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

20	19	...	...	16	15	...	...	...	11
30	...	28	...	...	...	24	23	...	21
40	...	...	37	...	...	...	...	32	31
50	49	48	...	46	...	44	...	...	41
60	59	...	57	56	...	...	...	...	...
70	...	...	...	...	...	...	...	...	61
80	...	...	...	76	75	...	...	...	...
90	89	...	87	...	...	84	...	82	...
100	...	98	...	...	...	...	93	...	...



Find the rule. Fill in the missing numbers

87	77	...	...	...	...	27	...	...
11	14	17	...	...	...	...	...	...
28	30	...	...	...	...	40	...	...
19	17	...	...	...	...	7	...	3



Find the number pattern.

Fill in with the missing numbers.

-10	20	30	40	50	60	70	80	90
	10	.	.	.	50	.	.	.

-4	14	24	34	44	54	64	74	84	94
	10	.	.	.	.	.	.	.	90



Find the number pattern.

Fill in with the missing numbers.

30	29	28	27	...	...	24	...	...	21
40	38	36	...	32	30	...	...	24	22
50	47	...	41	38	...	32	29	...	23
60	55	...	45	...	35	...	25	...	15
90	...	70	...	...	40	30	...	...	0



Find the number pattern.

Fill in with the missing numbers

0	1	2	...	...	5	...	7	...
5	6	7	8		10	11	12	13
10	...	...	...	14	...	16	...	18
	16			19	20	...	22	...
20		22	23		...	...	27	28

...	26	...	28	29	30	31	...	33
...	...	32		34	...	...	37	
35	...	...	38	...	40	41		43
40	41	...	...	44	45		47	



End unit assessment

1. Fill in the blanks with the missing numbers

a.

10	...	30	...	50	...	70	...	90
----	-----	----	-----	----	-----	----	-----	----

b.

90	...	80	..	70	65	45
----	-----	----	----	----	----	------	------	-----	----

4. Fill in the missing numbers

87	77	...	...	...	...	27	...	...
11	14	17	...	...	...	...	...	...
28	30	...	...	...	...	40	...	...
19	17	...	...	...	...	7	...	3

5. Do this

<ul style="list-style-type: none"> Ana has 10 bananas. 		Bananas of Ana
<ul style="list-style-type: none"> Monica has 2 less bananas than Ana. How many does Monica have? 		Bananas of Monica
<ul style="list-style-type: none"> Sara has 2 less bananas than Monica. How many does Sara have? 		Bananas of Sara

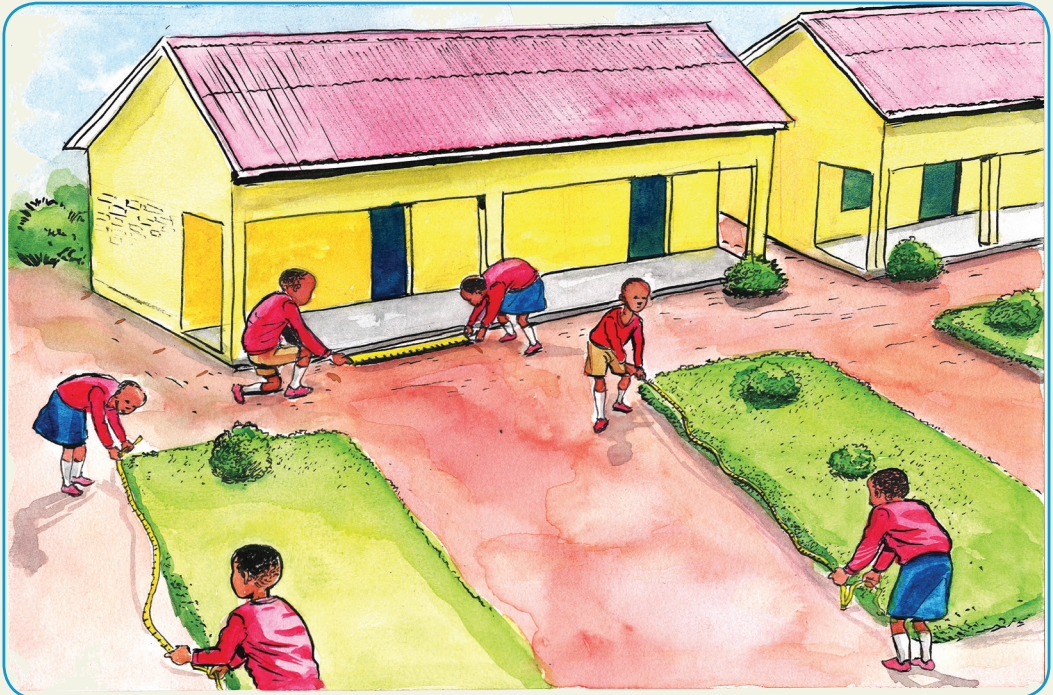
6. Find the rule for this number pattern:

80; 70; 60; 50...

UNIT 10: MEASURING LENGTHS LESS THAN OR EQUAL TO 10 m

10.0. Introductory activity

1. Look at the picture.
2. What do you see?
3. How many children do you see?
4. What are the children doing?
5. What do children have in hands?



10.1. Concept of lengths



Look at the pictures.

What is short?

What is tall or long?



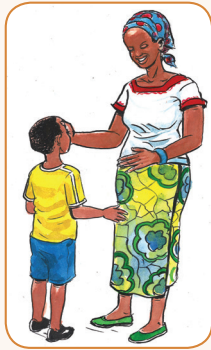
The tree is **tall**

The maize is **short**



The flat is **long**

The house is **....**



Mum is **....**

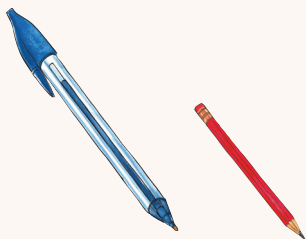
Karisa is **short**



Look at the pictures.

What is short?

What is tall or long?



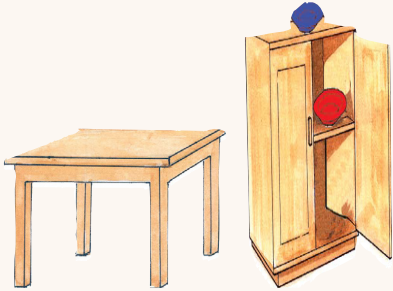
A pencil is **short**

A blue pen is **tall**



A flask is

A cup is



A table is

A cupboard is

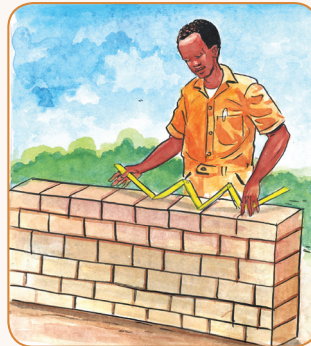
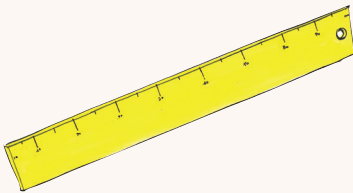
10.2. Lengths measurement tools

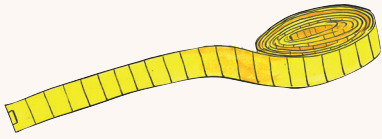


Look at the pictures.

What are the tools of measuring lengths that you see?

Name each tool.

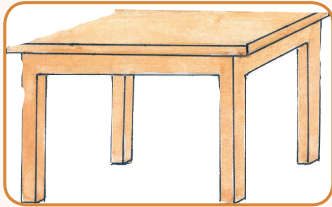




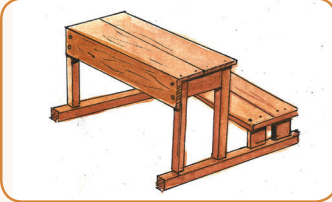
10.3. Reading and writing meter “m”



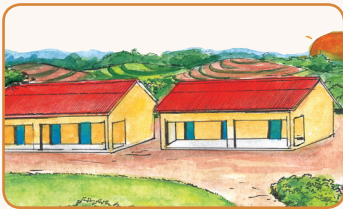
Say the length of each object.



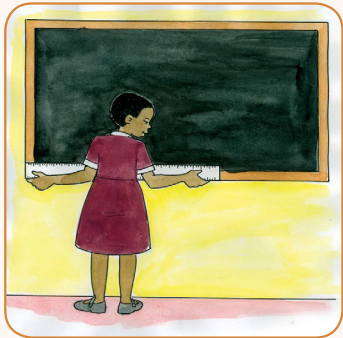
A table has **1 meter** of lengths



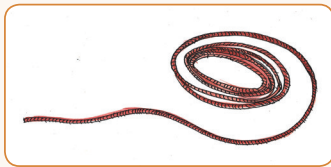
A desk has **1 meter** of lengths



A classroom has **8 meters** of lengths



A blackboard has **6 meters** of lengths



A rope has **10 meters** of lengths



Look at the examples.

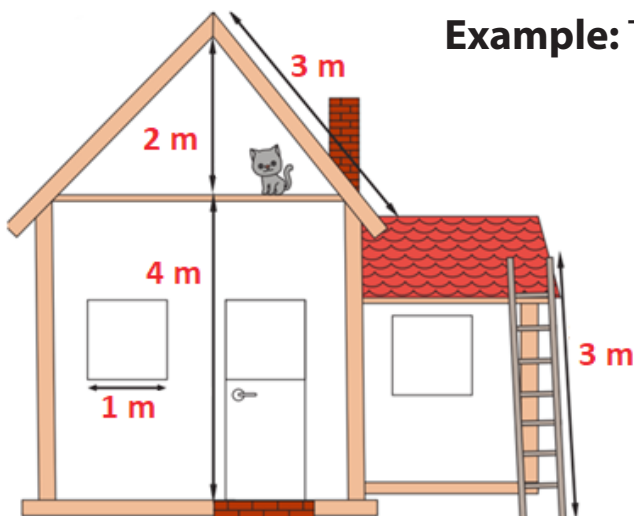
Fill in with the blanks with "m" or a number.

Read	Write
1 meter	1 m
2 meters	2 m
3 meters	3 ...
4 meters	... m
5 meters	... m
6 meters	6 m
7 meters	7 ...
8 meters	8 m
9 meters	9 ...
10 meters	... m



Look at the measurements of the house.

Say what you see.



Example: The window is **1 m long**

The wall islong

The ladder islong

The ceiling ishigh

10.4. Comparing lengths less than 10 m



Look at the examples.

Fill in with the correct symbol: $>$, $<$ or $=$

Examples:

$$1\text{ m} < 2\text{ m}$$

$$4\text{ m} > 1\text{ m}$$

$$1\text{ m} = 1\text{ m}$$

$$4\text{ m} \square 8\text{ m}$$

$$8\text{ m} \square 7\text{ m}$$

$$10\text{ m} \square 4\text{ m}$$

$$7\text{ m} \square 3\text{ m}$$

$$1\text{ m} \square 4\text{ m}$$

$$6\text{ m} \square 6\text{ m}$$

$$6\text{ m} \square 9\text{ m}$$

$$10\text{ m} \square 6\text{ m}$$

$$5\text{ m} \square 9\text{ m}$$

10.5. Addition of lengths in meters

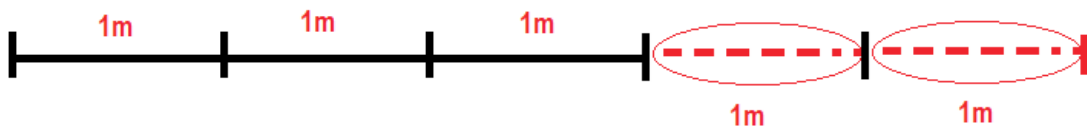


Look at the example.

Add lengths in meters.

Example:

$$3\text{ m} + 2\text{ m} = 5\text{ m}$$



$$1\text{ m} + 1\text{ m} = \square\text{ m}$$

$$1\text{ m} + 2\text{ m} = \square\text{ m}$$

$$3\text{ m} + 4\text{ m} = \square\text{ m}$$

$$5\text{ m} + 5\text{ m} = \square\text{ m}$$

$$2\text{ m} + 3\text{ m} = \square\text{ m}$$

$$2\text{ m} + 4\text{ m} = \square\text{ m}$$

$$1\text{ m} + 5\text{ m} = \square\text{ m}$$

$$6\text{ m} + 3\text{ m} = \square\text{ m}$$

$$9\text{ m} + 1\text{ m} = \square\text{ m}$$

$$8\text{ m} + 2\text{ m} = \square\text{ m}$$

$$3\text{ m} + 5\text{ m} = \square\text{ m}$$

$$5\text{ m} + 4\text{ m} = \square\text{ m}$$

$$2\text{ m} + 4\text{ m} = \square\text{ m}$$



Look at the example.

Find 2 different ways to make 8 m with sticks.

Example:



Do this.

- Keza needs 4 m of a piece of cloth for tailoring shorts.
- Keza needs 5 m for tailoring dresses.
- How many meters does Keza need for both shorts and dresses?



10.6. Subtraction of lengths in meters

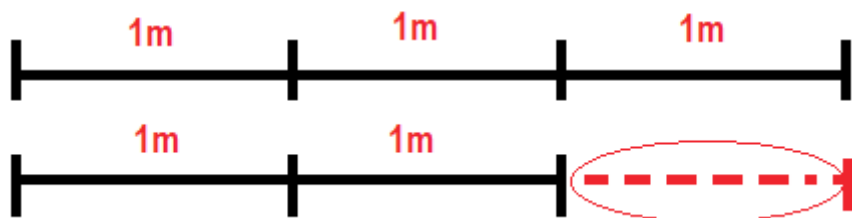


Look at the example.

Subtract lengths in meters.

Example

$$3 \text{ m} - 1 \text{ m} = 2 \text{ m}$$



$$4 \text{ m} - 1 \text{ m} = \dots \text{ m}$$

$$7 \text{ m} - 2 \text{ m} = \dots \text{ m}$$

$$5 \text{ m} - 5 \text{ m} = \dots \text{ m}$$

$$6 \text{ m} - 3 \text{ m} = \dots \text{ m}$$

$$8 \text{ m} - 4 \text{ m} = \dots \text{ m}$$

$$9 \text{ m} - 1 \text{ m} = \dots \text{ m}$$

$$5 \text{ m} - 4 \text{ m} = \dots \text{ m}$$

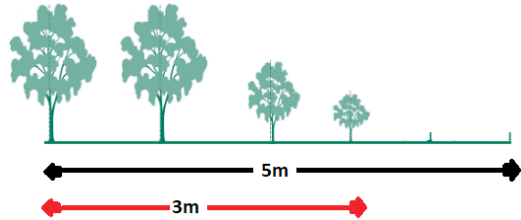
$$7 \text{ m} - 3 \text{ m} = \dots \text{ m}$$

$$4 \text{ m} - 4 \text{ m} = \dots \text{ m}$$



Do this.

- At school, children want to plant trees on a line of 5 meters.
- Children plant trees on a line of 3 meters.
- How many meters are remaining?



End unit assessment

1. Work out these

- $6\text{ m} + 4\text{ m} = \dots$
- $10\text{ m} - 4\text{ m} = \dots$
- $6\text{ m} + \dots\text{ m} = 9\text{ m}$

2. Look at the example. Find 4 different ways to make 10 m with sticks

Example: 1m 1m 4m 2m 2m

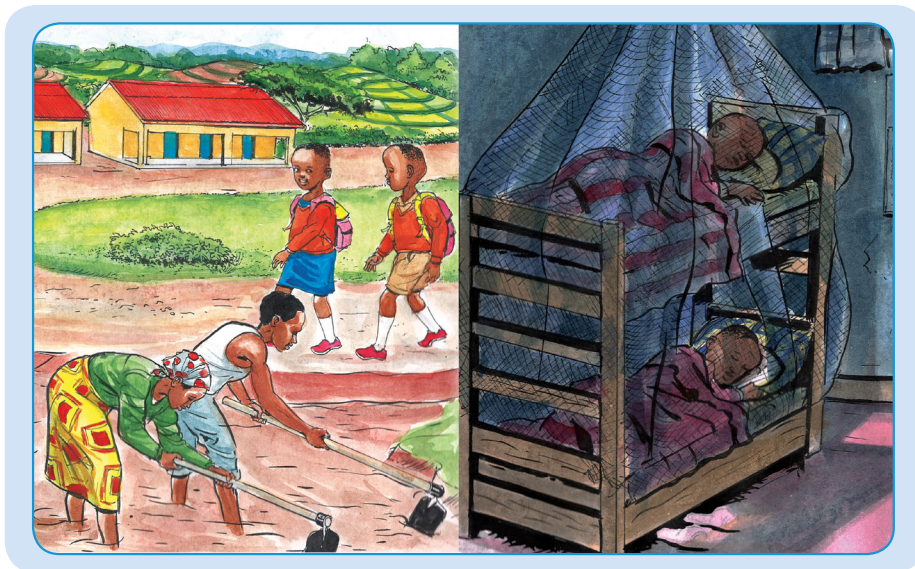
3. Do this

- Mary needs 4m of cloth for tailoring shorts.
- Mary needs 5 m of cloth for tailoring a coat.
- How many meters of cloth does Mary need to buy?

UNIT 11: MAIN PARTS OF THE DAY AND DAYS OF THE WEEK

11.0. Introductory activity

1. Look at the picture.
2. What do you see?
3. What are the people doing?
4. How many children have bags?
5. How many children are on the beds?

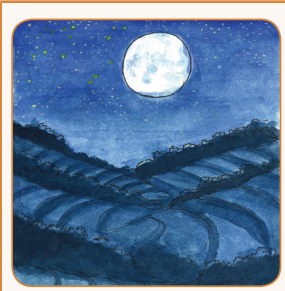


11.1. Main Parts of a day



Look at the pictures.

What do you see?





Look at the pictures.

Tell the story.

Morning Hours

Mary goes to school

John brushes his teeth



12 O'clock

John and Mary come back from school



Evening hours

John and Mary revise their lessons. Their father helps them.



During night





John and Mary sleep in a mosquito net.





Read the pictures.

Match the picture with the correct word.

Morning		No sun
Evening		Sunshine
Noon		Sunrises
Night		Sunsets



Answer these.

1. What do you do in the morning?
2. What do you do at 12 O'clock?
3. What do you do in the evening?
4. What do you do at night?



Answer these.


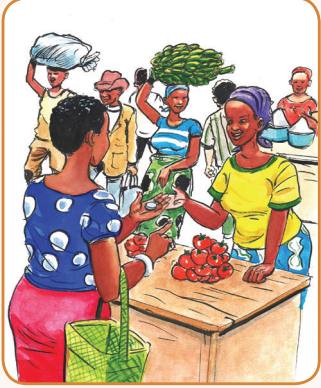
Parts of the day	What do you do?
1. Morning	Example: brush teeth
2. 12 O'clock	
3. Evening	
4. Night	

11.2. Days of the week

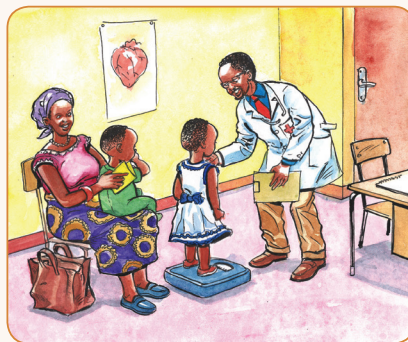


Look at the pictures.

Talk about the everyday activities.

Monday	
Tuesday	
Wednesday	

Thursday



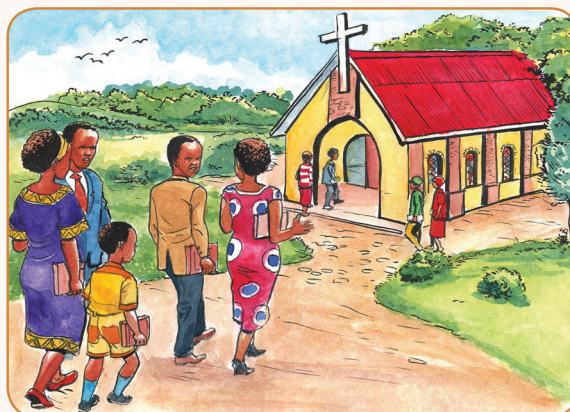
Friday



Saturday



Sunday





Look at the example.

Complete with days of the week.

Monday

Wednesday

Saturday

Tuesday

Sunday

Thursday

June							2020
					Friday		
7	1	2	3	4	5	6	
14	8	9	10	11	12	13	
21	15	16	17	18	19	20	
28	22	23	24	25	26	27	
	29	30					



Talk about 5 main daily activities from Monday to Sunday.



End unit assessment

Look at the example. Fill in the gaps with the days of week

Example:

Saturday

Sunday

Monday

Tuesday

Tuesday

?

?

?

?

?

?

Wednesday

?

?

Friday

?

?

Thursday

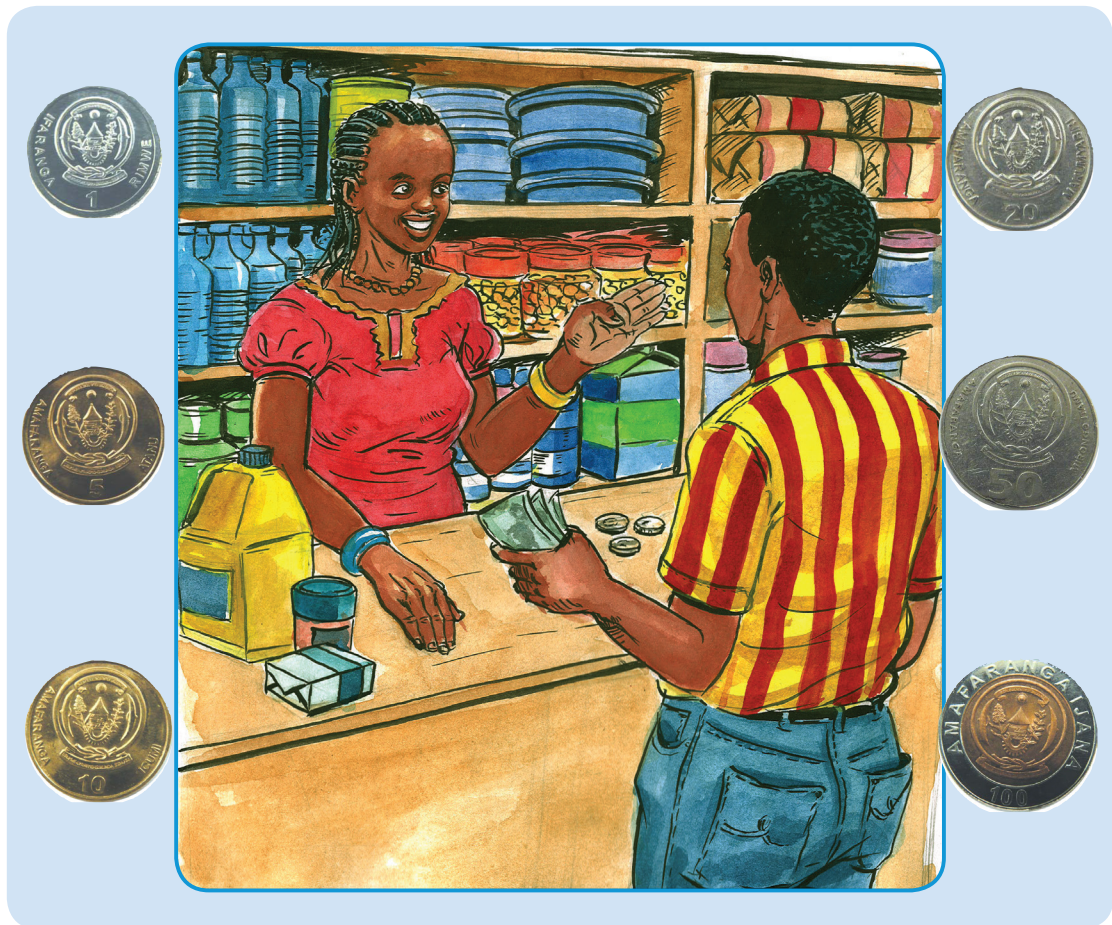
?

?

UNIT 12: RWANDAN CURRENCY FROM 1 Frw UP TO 100 Frw

12.0. Introductory activity

1. Look at the picture.
2. What do you see?
3. What are the people doing?



12.1. Rwandan Coins and their values



Look at the Rwandan Coins.
Say their values.

Example:

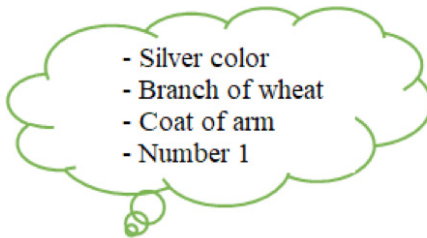


12.1. Rwandan Coins and their features



Look at the Rwandan Coins.
Say their features.

Example:






12.2. Exchange of Rwandan coins



Look at the Rwandan Coins.
How many coins for exchange?

Rwandan Coins	The Coin's Value
 <p>1 coin of 5 Frw</p>	 <p>5 coins of 1 Frw</p>
 <p>1 coin of 10 Frw</p>	 <p>10 coins of 1 Frw</p>
 <p>1 coin of 10 Frw</p>	 <p>2 coins of 5 Frw</p>



1 coins of 20 Frw



4 coins of 5 Frw



1 coins of 20 Frw



2 coins of 10 Frw



1 coins of 50 Frw



10 coins of 5 Frw



1 coins of 50 Frw



5 coins of 10 Frw



1 coins of 50 Frw





1 Coin of 100 Frw



5 coins of 20 Frw



1 Coin of 100 Frw



2 coins of 50 Frw

12.3. Addition of Rwandan currency



Look at the examples.

Add Rwandan francs



5 Frw + 5 Frw = 10 Frw



10 Frw + 10 Frw = 20 Frw

1 Frw + 1 Frw =

1 Frw + 5 Frw =

15 Frw + 5 Frw =

5 Frw + 10 Frw =

20 Frw + 5 Frw =

20 Frw + 10 Frw =

50 Frw = 20 Frw +

50 Frw + 5 Frw =

10 Frw + 50 Frw =

50 Frw + 50 Frw =

50 Frw + 1 Frw =

20 Frw + 1 Frw =

20 Frw + 20 Frw =

100 Frw = 50 Frw +



Do these.

$$10\text{Frw} + \boxed{\dots} = 20\text{Frw}$$

$$\boxed{\dots} + 5\text{Frw} = 10\text{Frw}$$

$$50\text{Frw} = 20\text{Frw} + \boxed{\dots}$$

$$100\text{Frw} = 50\text{Frw} + \boxed{\dots}$$

12.4. Subtraction of Rwandan currency



Look at the examples.

Subtract Rwandan francs

	$\begin{array}{r} 10 \\ - 5 \\ \hline 5 \end{array}$		$\begin{array}{r} 20 \\ - 10 \\ \hline 10 \end{array}$
$10\text{ Frw} - 5\text{ Frw} = 5\text{ Frw}$		$20\text{ Frw} - 10\text{ Frw} = 10\text{ Frw}$	

$$50\text{ Frw} - 10\text{ Frw} = \boxed{\dots}$$

$$50\text{ Frw} - 20\text{ Frw} = \boxed{\dots}$$

$$100\text{ Frw} - 50\text{ Frw} = \boxed{\dots}$$

$$100\text{ Frw} - 10\text{ Frw} = \boxed{\dots}$$

$$50\text{ Frw} - 5\text{ Frw} = \boxed{\dots}$$

$$20\text{ Frw} - 5\text{ Frw} = \boxed{\dots}$$

$$100\text{ Frw} - 20\text{ Frw} = \boxed{\dots}$$

$$40\text{ Frw} - 10\text{ Frw} = \boxed{\dots}$$



Do these.

- A
- Anitha has 2 coins of Rwandan francs.
 - A coin of 20 Frw and a coin of 10 Frw.
 - How much money does Anitha Have?



- B
- Mutesi has 100 Frw.
 - Mutesi buys a pencil at 50 Frw.
 - How much money does Mutesi remain with?



Coin of 100 Frw



Pencil at 50 Frw



12.5. The use of money

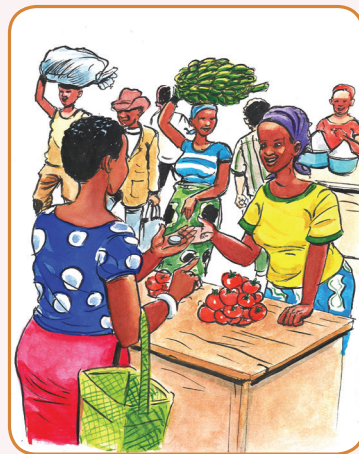


Look at the pictures.

Talk about the use of money.



Karire buys a pen



Mummy buys.....



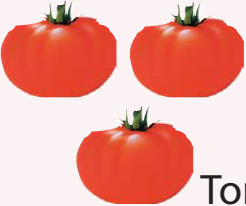








Feza buys.....



Kabera buys.....



Tell your friend items you can buy with 100 Frw .

 <p>Tomatoes</p>	 <p>Avocado</p>	 <p>Banana</p>
 <p>Maize</p>	 <p>Tomato tree</p>	 <p>Pencil</p>
 <p>Car</p>	 <p>Bicycle</p>	 <p>Ball</p>



End unit assessment

1. Pick and show the following coins:
 - Coin of Five Rwandan francs: 5Frw
 - Coin of ten Rwandan francs: 10Frw
 - Coin of hundred Rwandan francs: 100Frw
 - Coin of twenty Rwandan francs: 20Frw
 - Coin of fifty Rwandan francs: 50Frw
2. Identify a number of small coins to make 100
 - How many coins of 50 Frw to make 100Frw?
 - How many coins of 20 Frw to make 100 Frw
 - How many coins of 10 Frw to make 100 Frw?

3. Find the correct answer

- $50\text{Frw} - 20\text{Frw} = \dots\text{Frw}$
- $10\text{Frw} + 20\text{Frw} = \dots\text{Frw}$
- $50\text{Frw} + 50\text{Frw} = \dots\text{Frw}$

4. Fill in the missing money

- $100\text{Frw} = 50\text{Frw} + 30\text{Frw} + \dots\text{Frw}$
- $50\text{Frw} = 20\text{Frw} + 10\text{Frw} + \dots\text{Frw}$
- $20\text{Frw} = 10\text{Frw} + 5\text{Frw} + \dots\text{Frw}$

5. Match the coins with their values

		100 FRW	
		10 FRW	
		5 FRW	
		50 FRW	
		1 FRW	
		20 FRW	

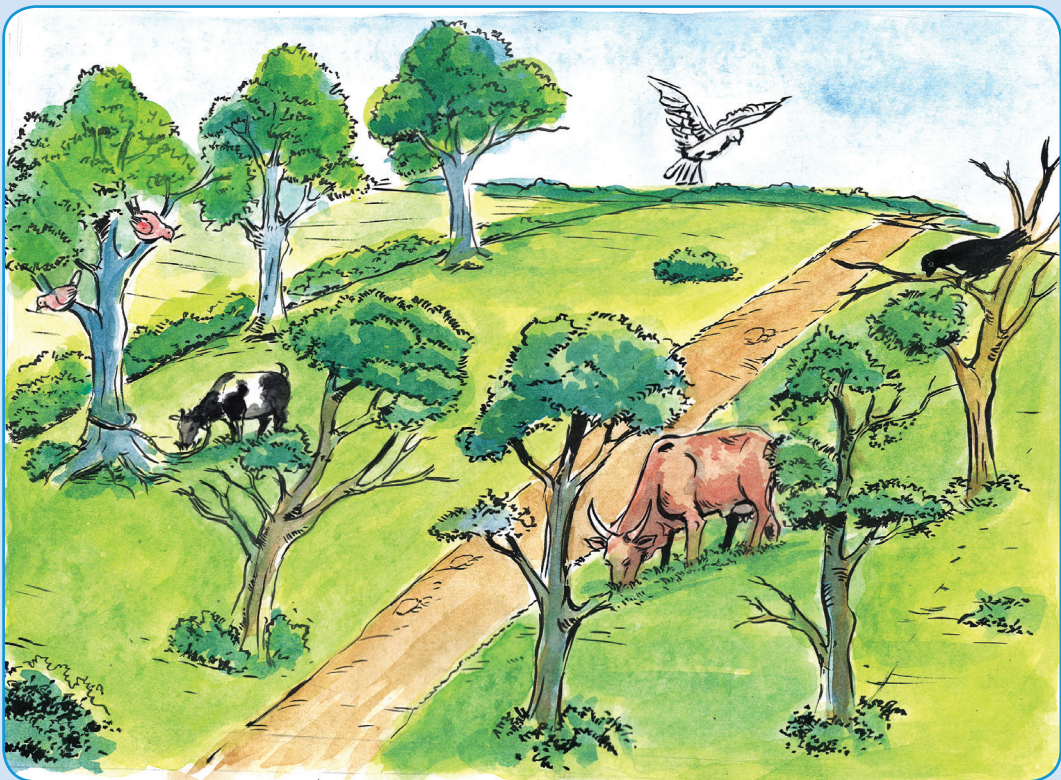
6. Do these

- Muhire has one coin of 100Frw in total. He buys biscuits of 50Frw. How much Frw does Muhire remain with?
- Mukamana has 100Frw. She buys banana of 20Frw, a box of biscuits of 50Frw and then a match box of 10Frw. How much money does Mukamana spend? How much Frw does Mukamana have?

UNIT 13: DIRECTIONS, LOCATION OF OBJECTS AND LINES

13.0. Introduction activity

1. Look at the picture.
2. What do you see?
3. How many cows do you see?
4. How many birds do you see?
5. How many goats do you see?
6. How many crows do you see?
7. How many trees do you see?
8. How many eagles do you see?



13.1. Location: In front of, between, back of/behind



Look at the pictures.

Where is a cat?

Where is a goat?

Where is a cock?

A cat is **in front of** the goat.

A cat is ... the goat A goat ... the cat and cock A cock is... the goat

13.2. Location: on, above.



Look at the pictures.

Where is Kabarisa?

Where are birds?

Kabarisa is ... the wall Birds are ... the tree

Kabarisa is **on** the ladder.

13.2. Location: left, right, between.



Look at the pictures.

Where is Muneza? Where is Giraneza? Where is Kaneza?



Muneza is on the of Giraneza

Giraneza is Muneza and Kaneza

Kaneza is on the of Giraneza

13.3. Location: near, beyond or next to.



Look at the picture.

Where is a hen and its chicks? Who is next to the church?



- Hen and its chicks areMutesi
- Ganza isthe church.

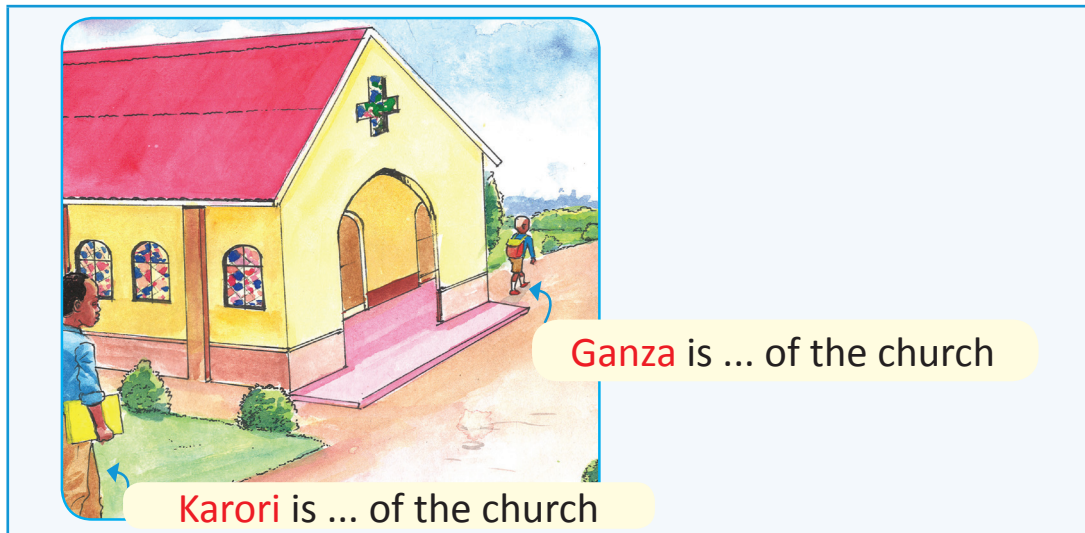


Look at the picture.

Use: **on the left side**; **on the right side**.

Where is Ganza?

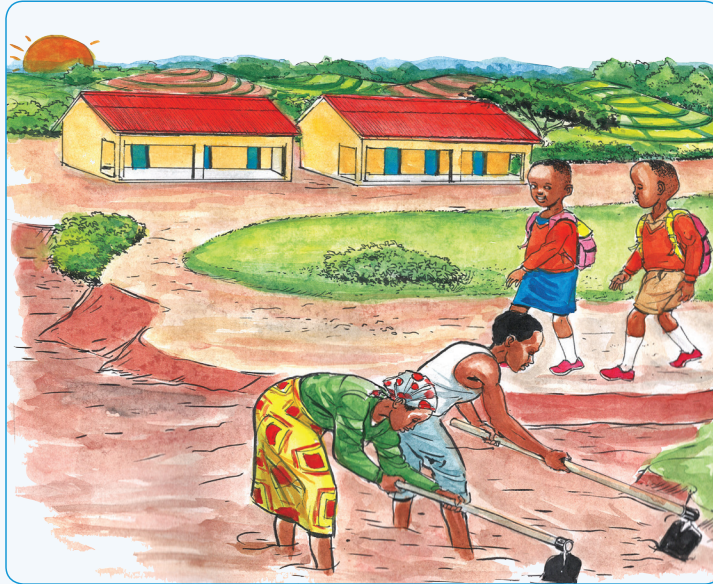
Where is Kalori?





Look at the picture.

Use "beside, in, above, in front of, left side, right side, between". Complete the sentences.



Children are the road

Father and mother are the road

Houses are the road

13.4. Types of lines.



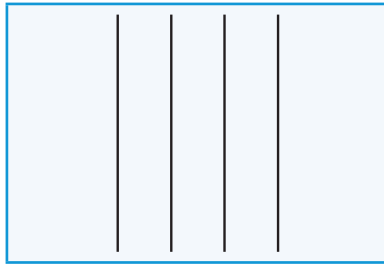
Look at the lines.

Draw Horizontal straight lines.



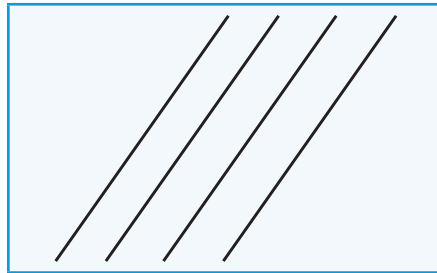
Look at the lines.

Draw vertical straight lines.



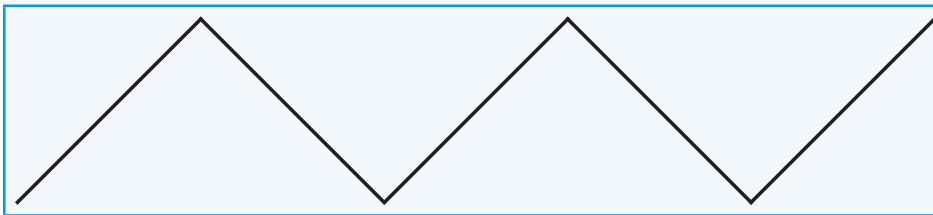
Look at the lines.

Draw oblique straight lines.



Look at the lines.

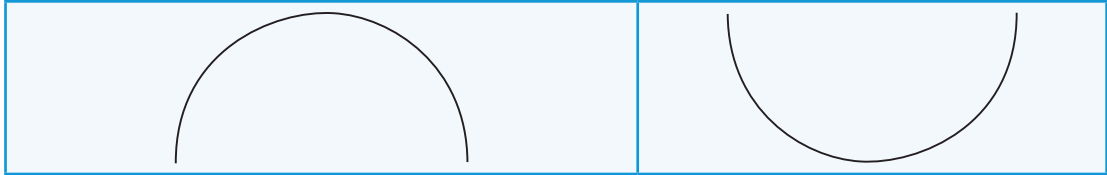
Draw cutting/ zigzag lines.



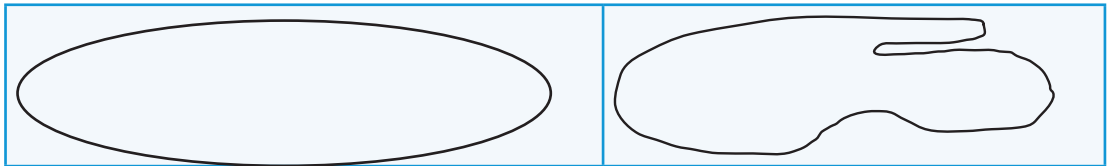
Look at the lines.

Draw curved lines.





Look at the lines.
Draw closed lines.



13.5. Dots located on; inside and outside of a closed line.



Look at the images.
Where are dots?

<p>The dot is inside</p>	<p>The dot is outside</p>	<p>The dot is on</p>
---------------------------------	----------------------------------	-----------------------------

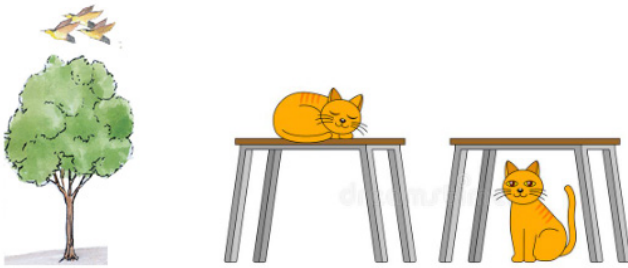
<p>The dot is inside the circle</p>	<p>The dot is outside the circle</p>	<p>The dot is on the circle</p>
--	---	--

<p>The dot is</p>	<p>The dot is</p>	<p>The dot is</p>
-------------------------	-------------------------	-------------------------



End unit assessment

1. Look at the picture. Use “above, under” to complete the sentences.



- Birds aretree
- A cat istable
- A cat istable

2. Draw a closed line

- Put 1 dot inside,
- Put 2 dots on the closed line
- Put 3 dot outside of the closed line.

3. Look at the picture. Use “on, under” to complete the sentences.

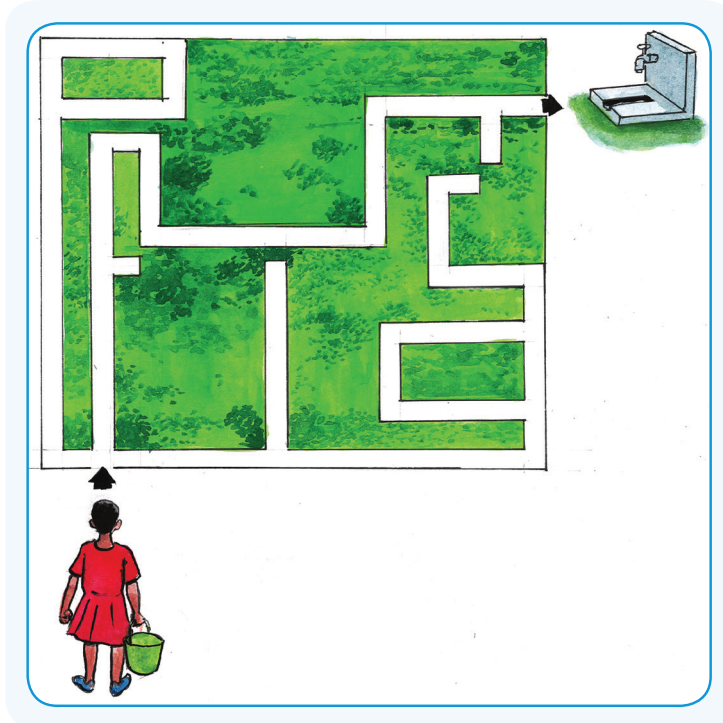


- Books are table.
- Football istable
- Muneza istables

UNIT 14: RIGHT ANGLE, SQUARE AND RECTANGLE.

14.0. Introductory activity

1. Look at the picture.
2. What do you see?



14.1. Right angle and its characteristics

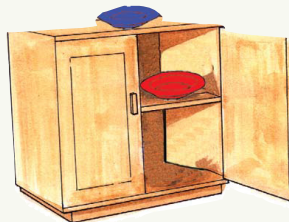


Look at the objects.

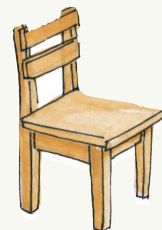
Show all right angles.



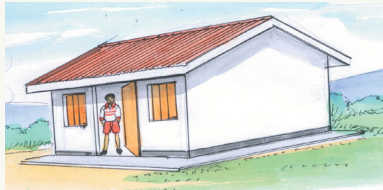
Table



Cupboard



Chair



House



Books

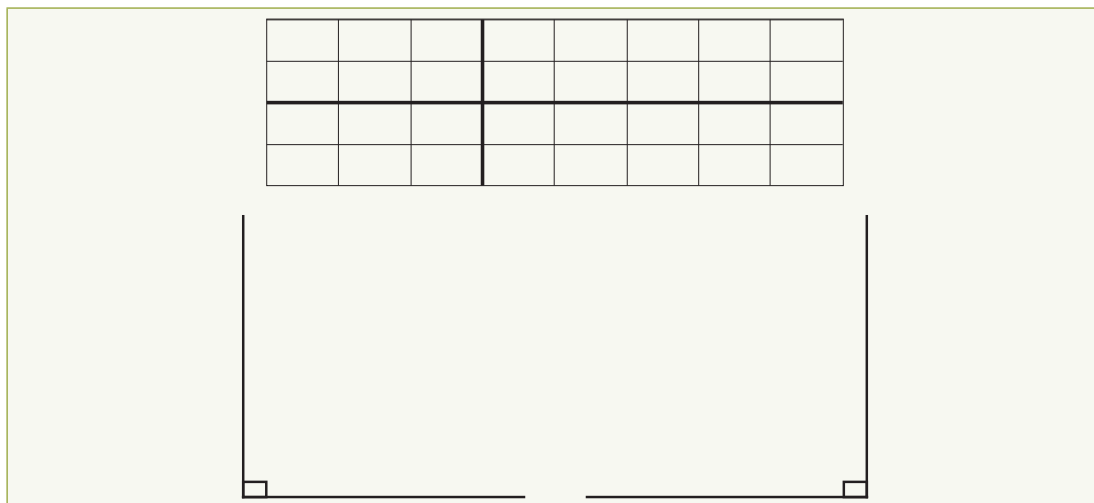


Look at the grid.

Show Horizontal straight lines.

Show Vertical straight lines.

Show the meeting point of the 2 lines.

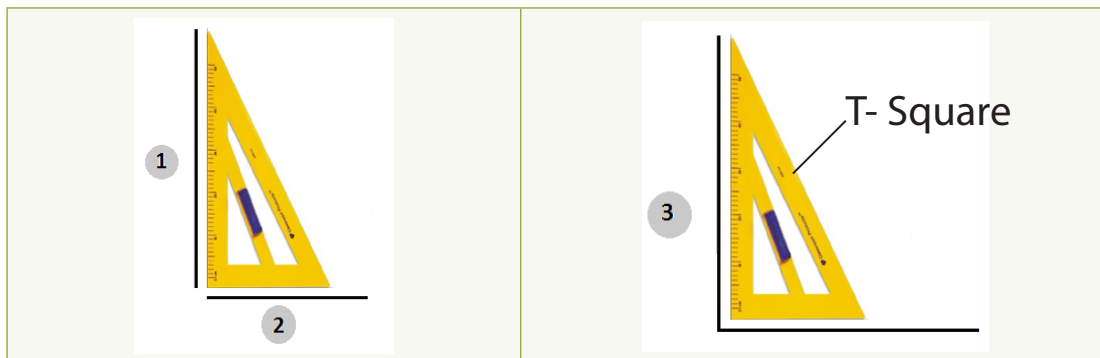


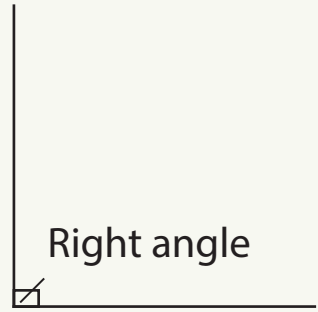
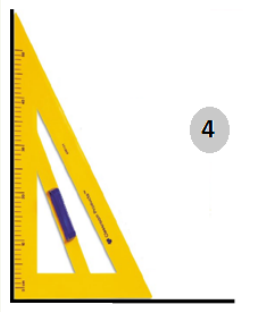
14.2. Drawing the Right angle



Look at the example.

Draw a right angle.



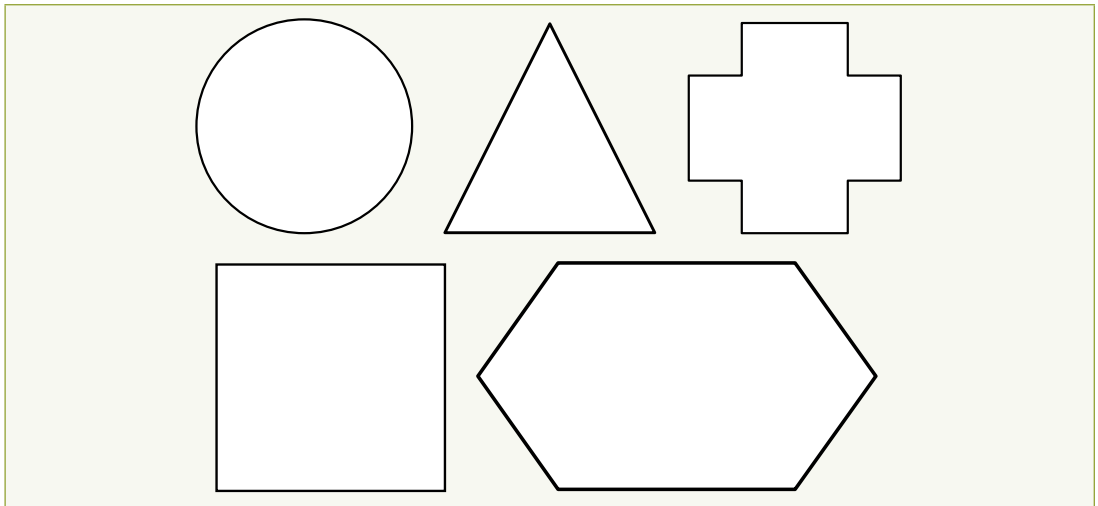


14.3. square and its characteristics



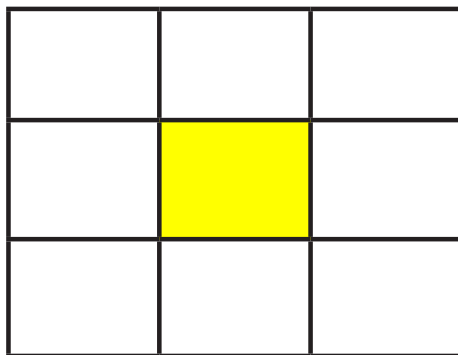
Look at the shapes.

Select all shapes with 4 sides



Look at the shape in yellow.

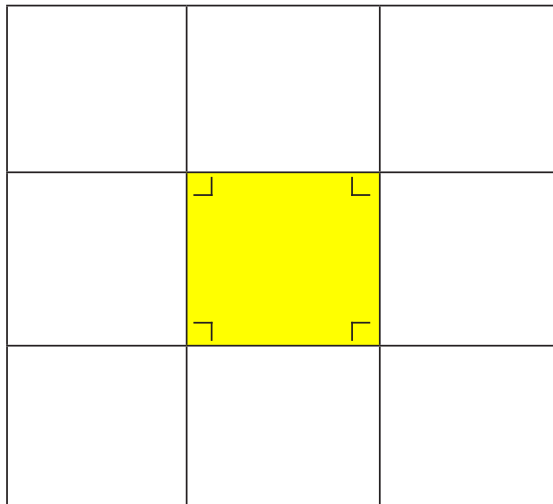
Show its sides.





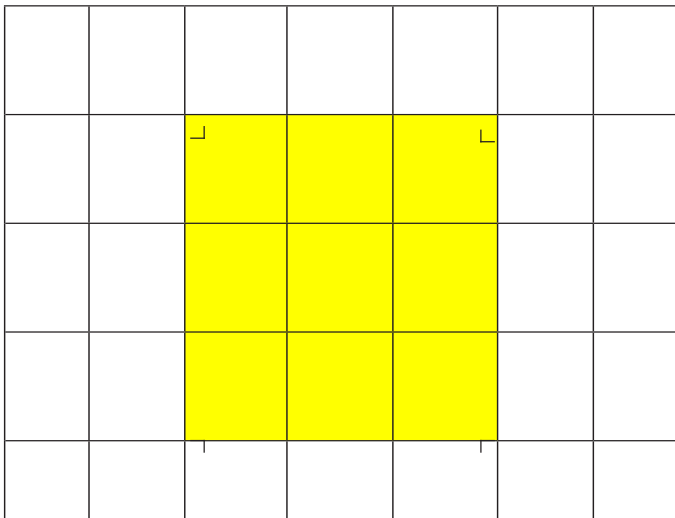
Look at the shape in yellow.

Show its angles.



Look at the shape in yellow.

Complete the sentences by: **4 sides, 4 angles, equal, Right angles.**



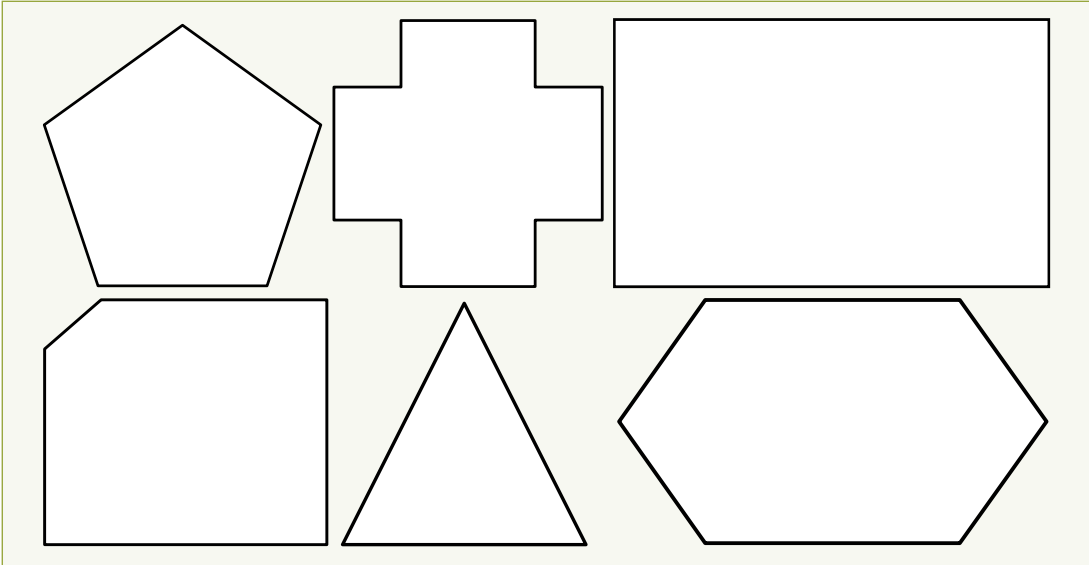
1. The yellow shape has
2. The yellow shape has
3. The yellow shape has sides
4. All angles in the yellow shape are

14.4. A rectangle and its characteristics



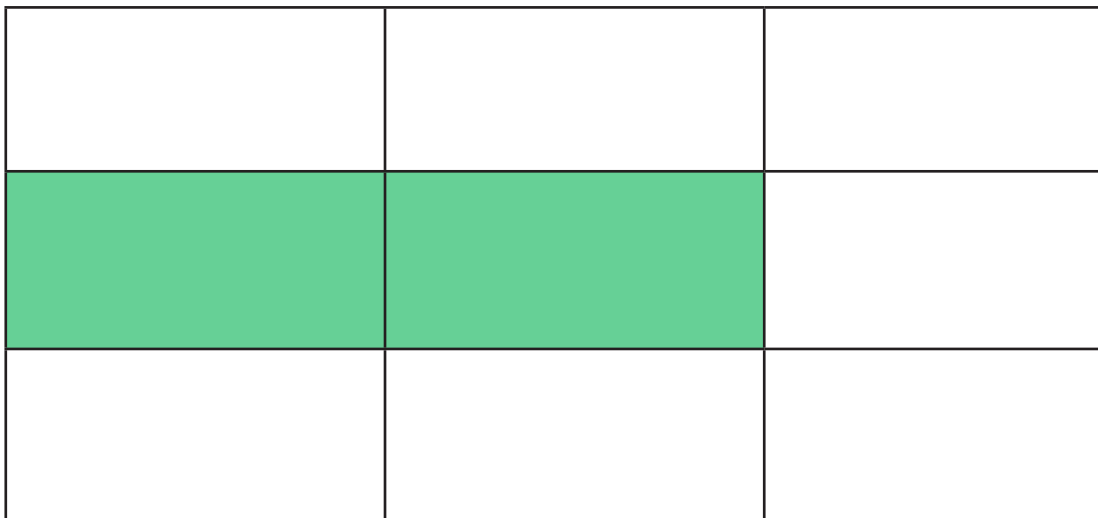
Look at the shapes.

Select all shapes with 4 sides.



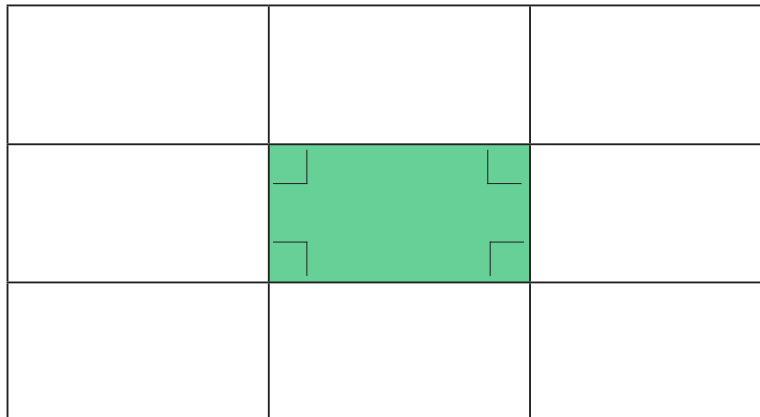
Look at the shape in green.

Show its sides.



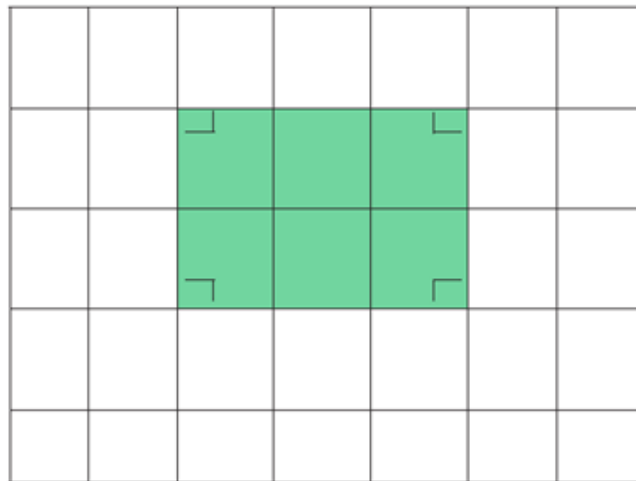


Look at the shape in green.
Show its angles.



Look at the shape in green.

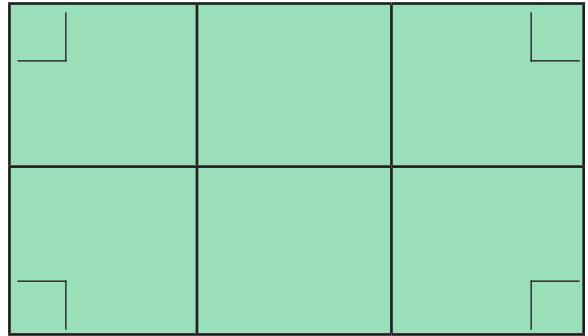
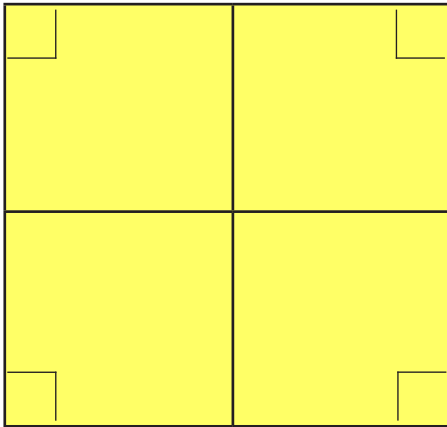
Complete the sentences by: **4 sides, 4 angles, 2 squares, 3 squares, Right angles.**



1. The green shape has
2. The green shape hason horizontal line.
3. The green shape hason vertical line.
4. The green shape has
5. All angles in the green shape are



Draw these shapes.



Do these.

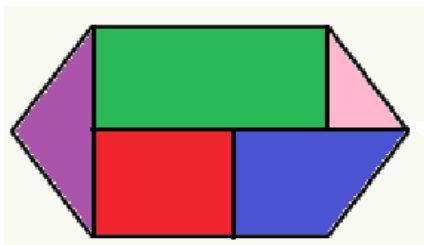
Draw a square of 4 grids on each side.

1. Draw a rectangle of 3 grids on one side and 4 grids on the other side.
2. Give names of objects that have a rectangular shape.



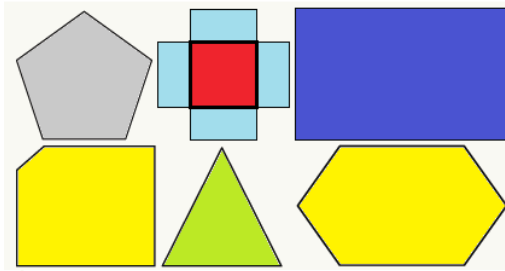
End unit assessment

1. Look at the picture. Find the right angles.



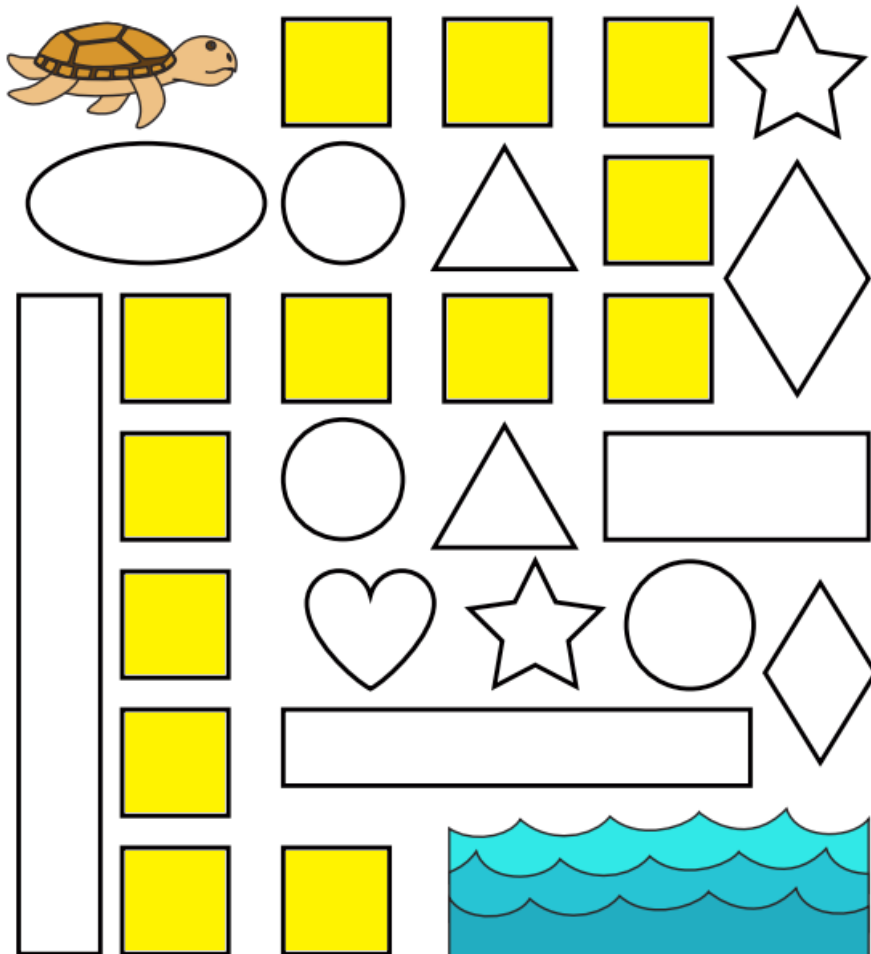
- Which color that represents the rectangle?
- Draw a square that has 6 small squares at each side?
- Give examples of objects that are rectangular in shape.

2. Look at the pictures. Answer the questions.

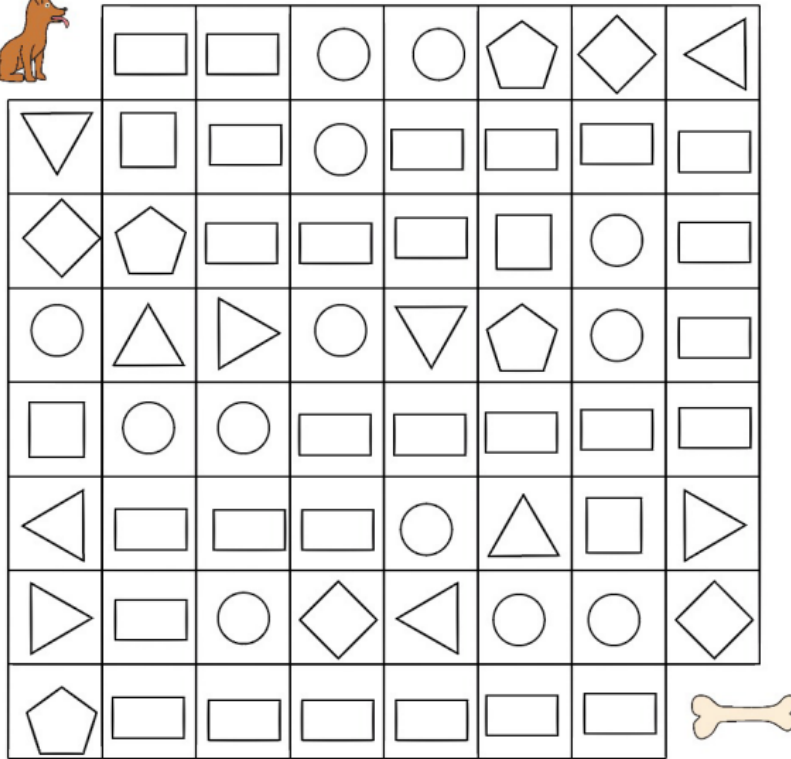


- The square is incolor.
- The rectangle is incolor.

3. Follow the yellow squares. Help the turtle to reach the lake.



4. Follow the rectangles. Help the dog to find the bone.



5. Look at the picture below. Identify the number of squares and the number of rectangles

