MATHEMATICS

Primary

1

Pupil's book

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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 with peers.

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 presentations, discussions, group work and other active learning techniques such as role play, case studies, investigation and research in the library, on internet or outside;
- 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 text book. 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

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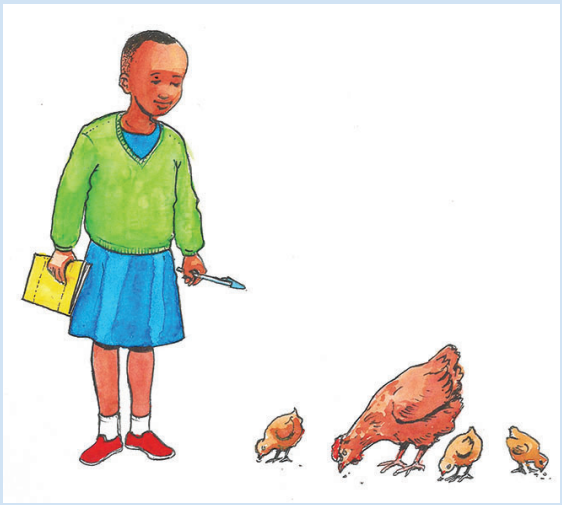
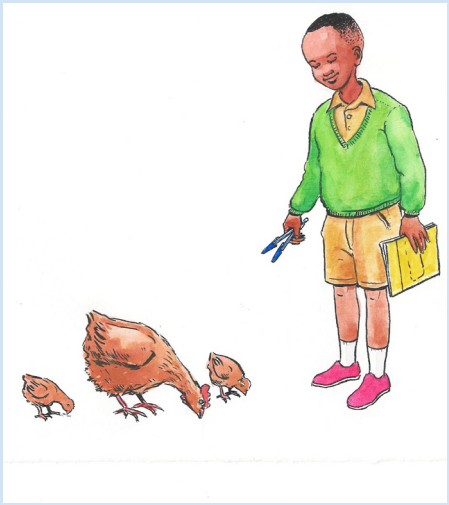
WHOLE NUMBERS FROM 1 TO 5

Activity (A)

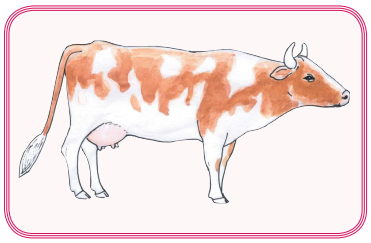
1. Look at the picture.
2. What do you see in the picture below?
3. How many hens do you see?

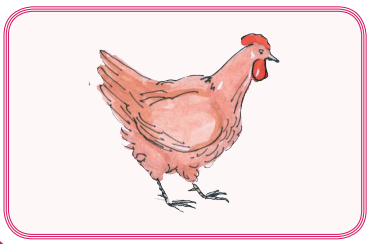


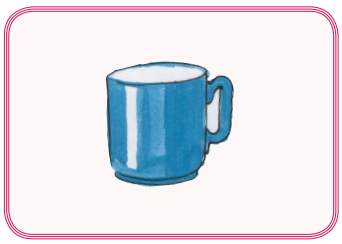


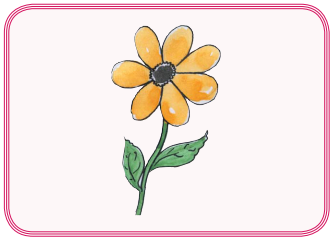
The Number 1

1. Count and tell the number of objects in the box.

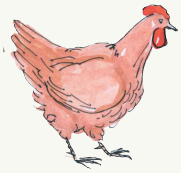








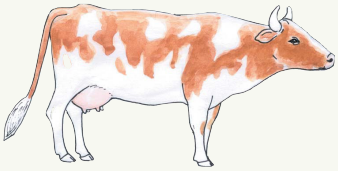
2. Count and tell the number of objects



1

1

3. Count and write the number 1



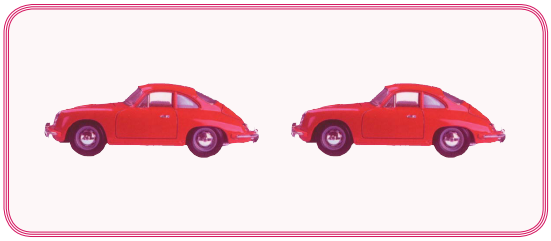
1 1

1 _ _ _ _ _ _ _ _

1 1 _ _ _ _ _ _ _

The Number 2

1. Count and tell the number of objects in the box



2. Count and tell the number of items.

2

2

3. Count and write the number 2

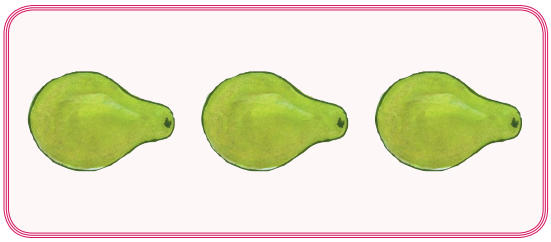
2 2

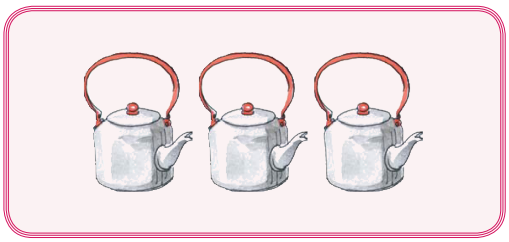
2 _ _ _ _ _ _ _ _ _

2 2 _ _ _ _ _ _ _ _

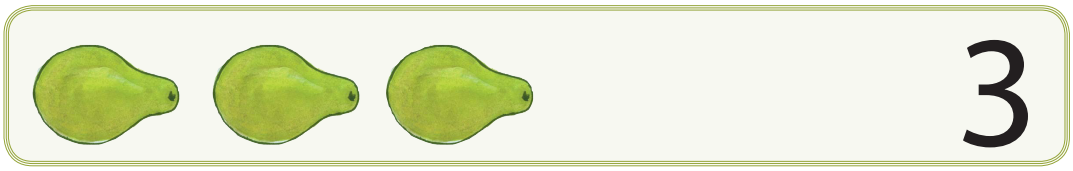
The Number 3

1. Count and tell the number of objects in the box





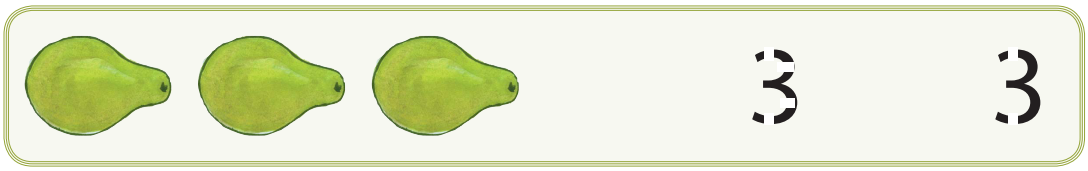
2. Count and tell the number of objects



3

3

3. Count and write the number 3



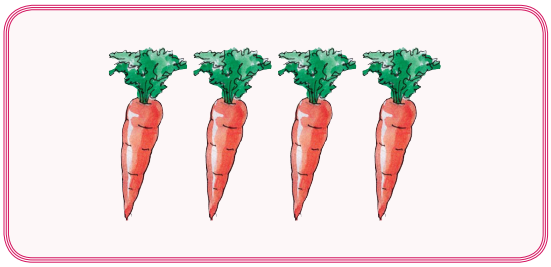
3 3

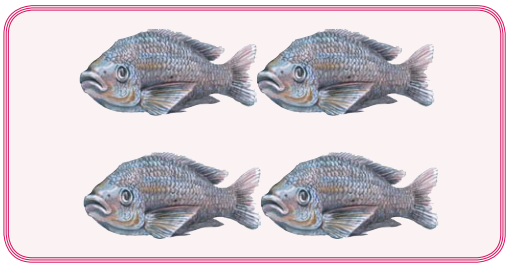
3 _ _ _ _ _ _ _ _

3 3 _ _ _ _ _ _ _

The Number 4

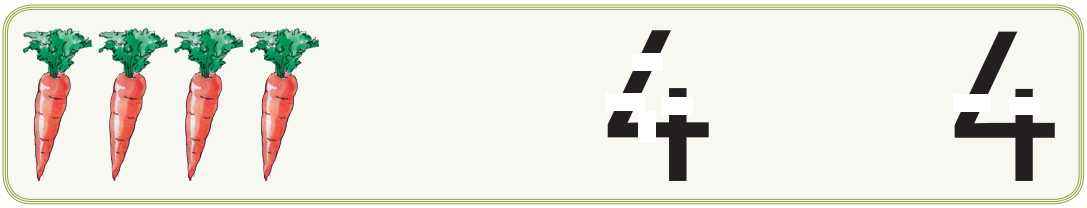
1. Count and tell the number of objects in each box





2. Count and tell the number of objects in each box

3. Count and write the number 4

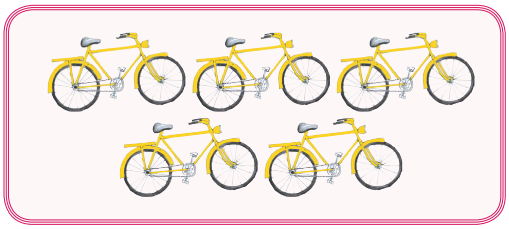


4 _ _ _ _ _ _ _ _

4 4 _ _ _ _ _ _ _ _

The Number 5

1. Count and tell the number of objects in the box



2. Count and tell the number of objects

5

5

3. Count and write the number 5

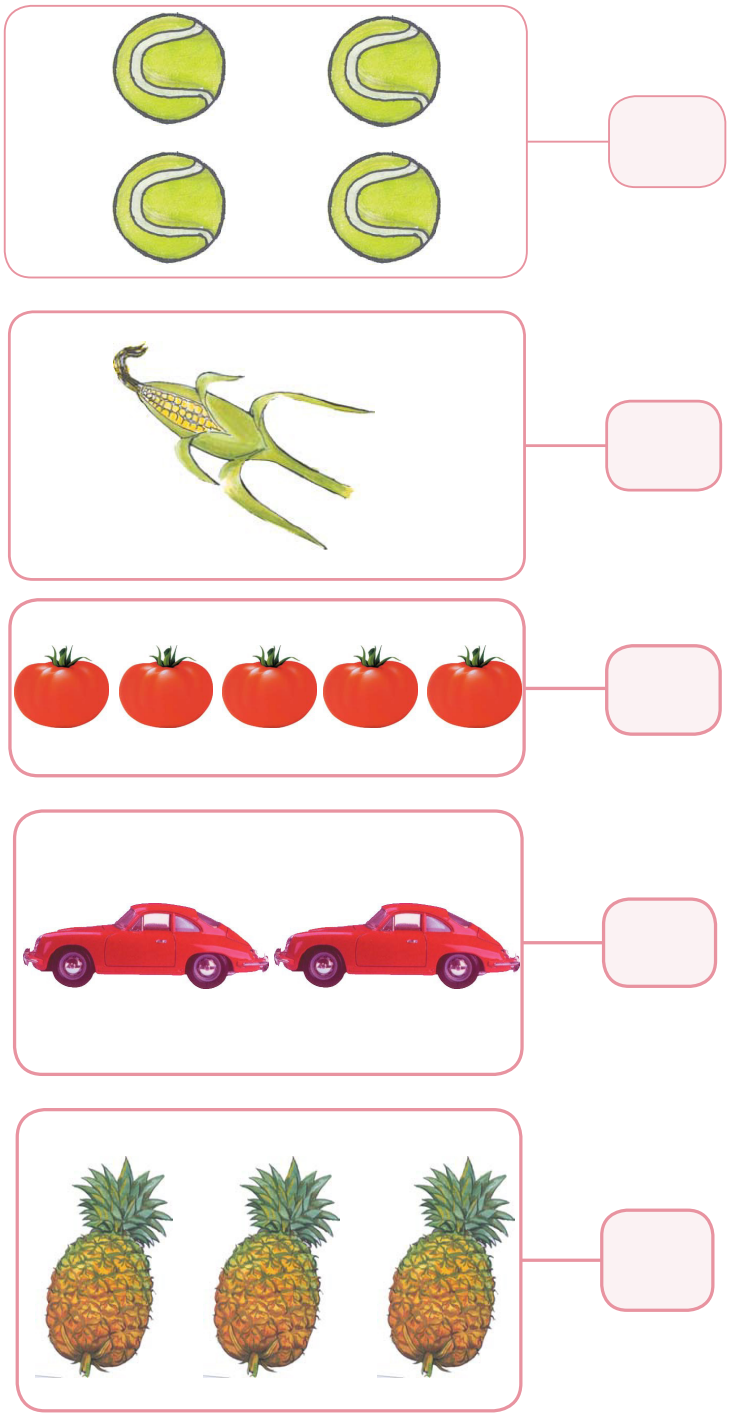
5 5

5 _ _ _ _ _ _ _ _

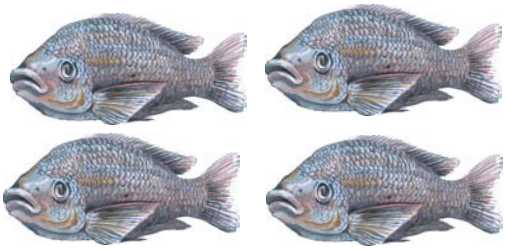
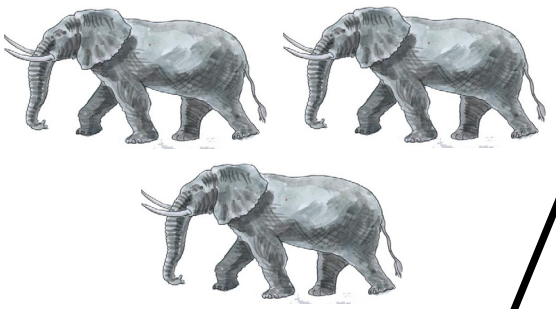
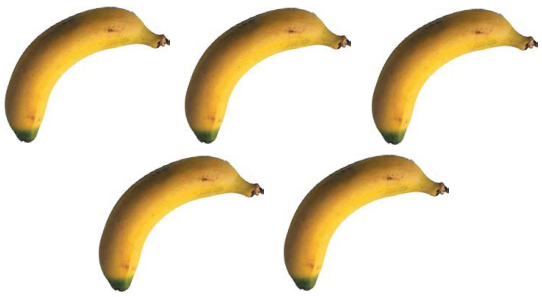
5 5 _ _ _ _ _ _ _

Activity (B)

1. Count and write the number in the box



2. Count and match the correct number with the picture

	2
	5
	3
	4
	1

3. Read and write the following numbers

1 1 1 ___ ___ ___ ___ ___ ___ ___

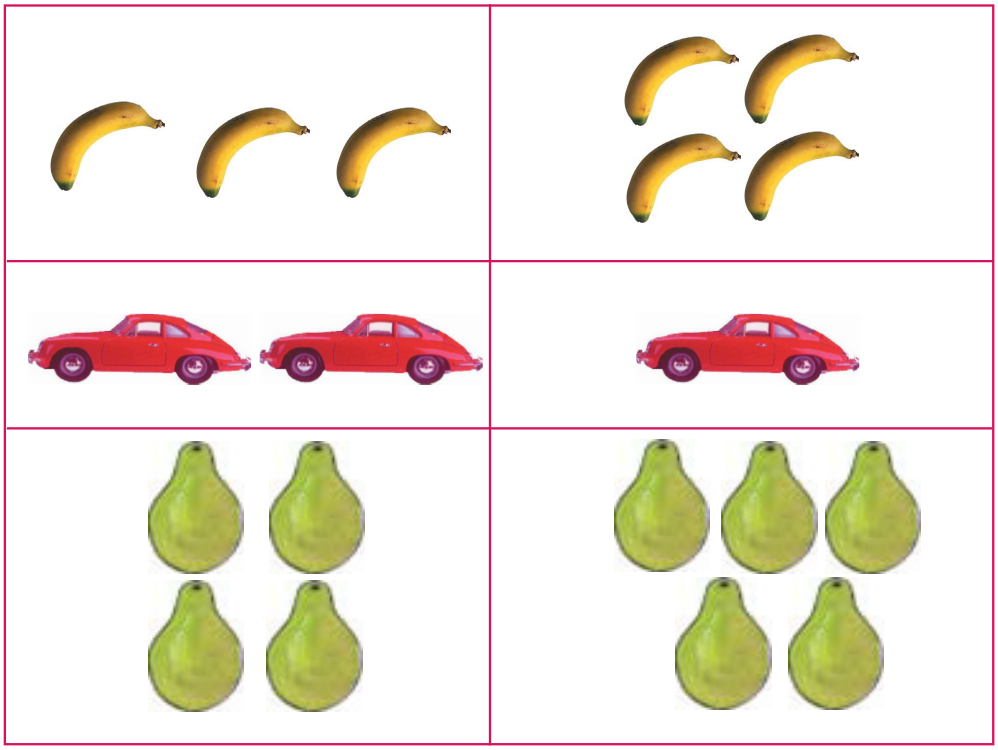
2 2 2 ___ ___ ___ ___ ___ ___ ___

3 3 3 ___ ___ ___ ___ ___ ___ ___

4 4 4 ___ ___ ___ ___ ___ ___ ___

5 5 5 ___ ___ ___ ___ ___ ___ ___

4. Count items in boxes and compare their numbers



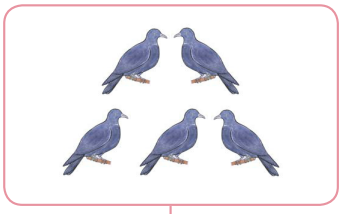
Activity (C)

1. Look at the examples and fill in the box with: <, >, =

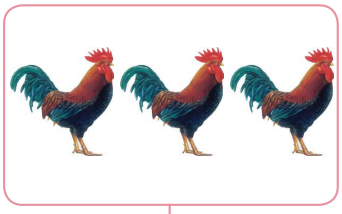
Examples

3 > 2

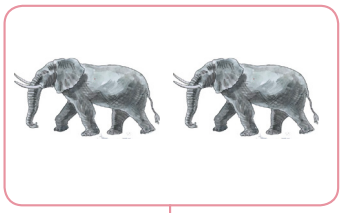
1 < 2



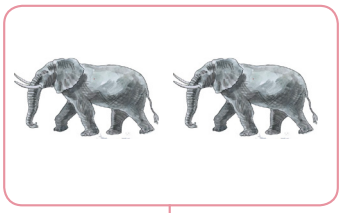
5 = 5



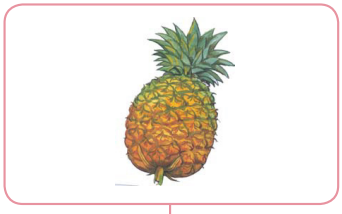
3 ☐ 2



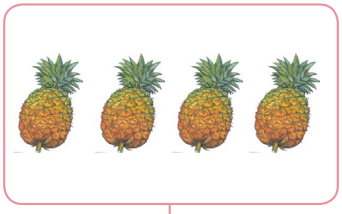
2



2



1



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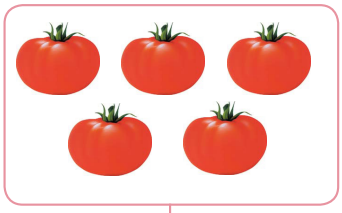

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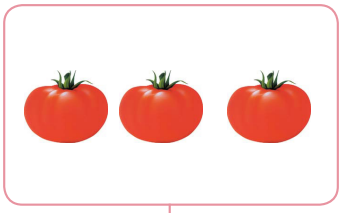


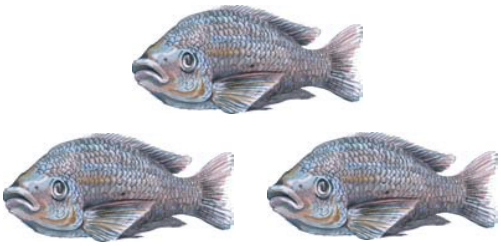
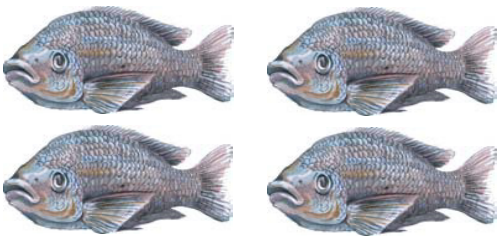
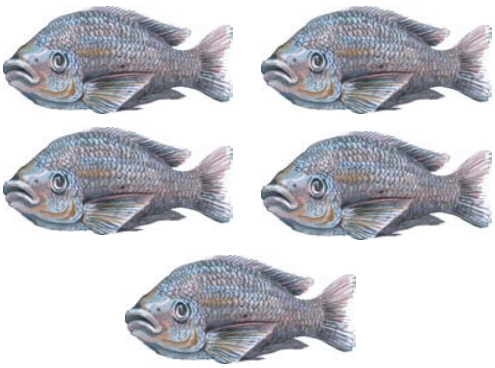
3

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

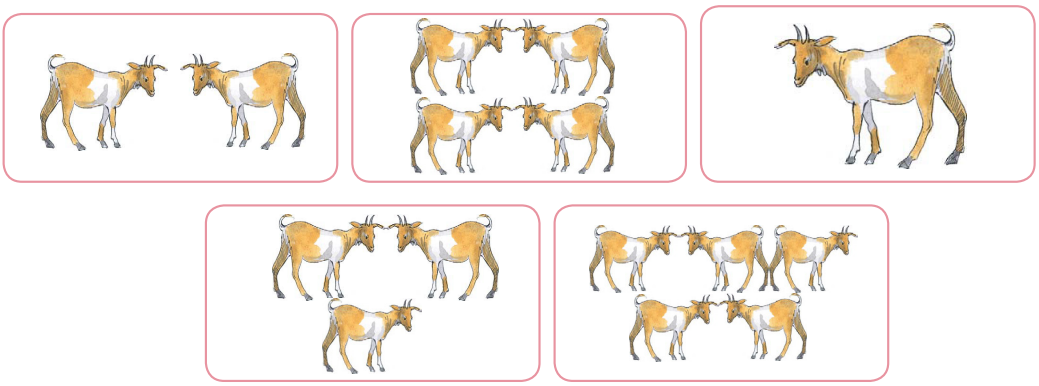
3		2
1		4
2		2
5		3

3		4
5		5
1		2
5		4

3. Count and tell the number of fish in each box

	1
	2
	3
	4
	5

4. Count and tell the smallest and biggest number of goats



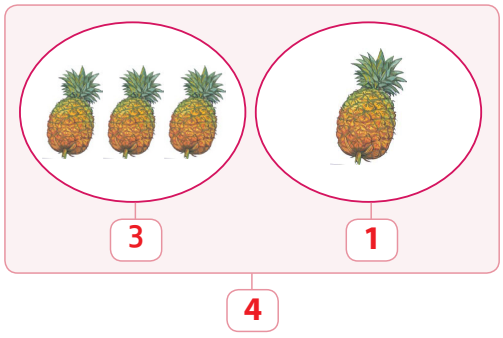
5. Fill in the missing numbers .

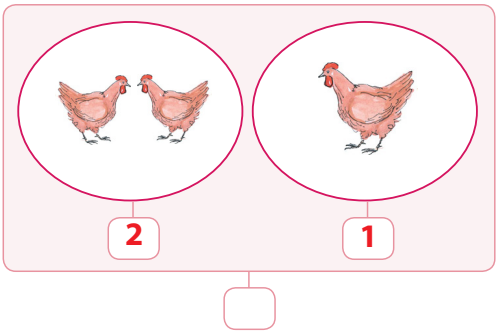
1	..	3	..	5

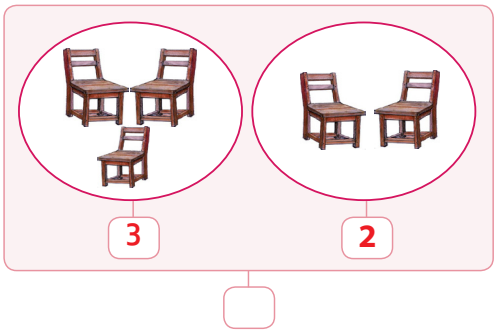
6. Arrange these numbers starting from the smallest to the largest.

2	5	3	4	1
____	____	____	____	____

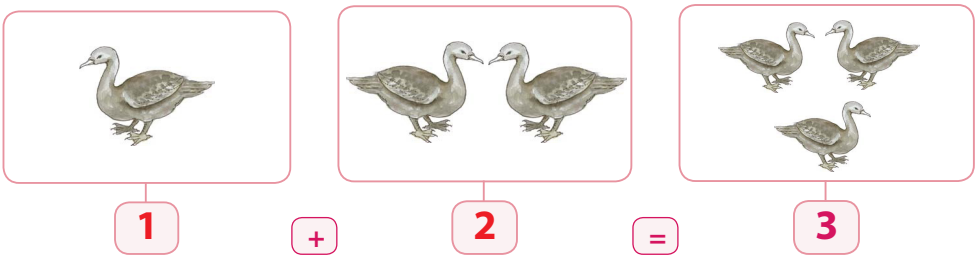
7. Follow the example, count and complete with the correct number.

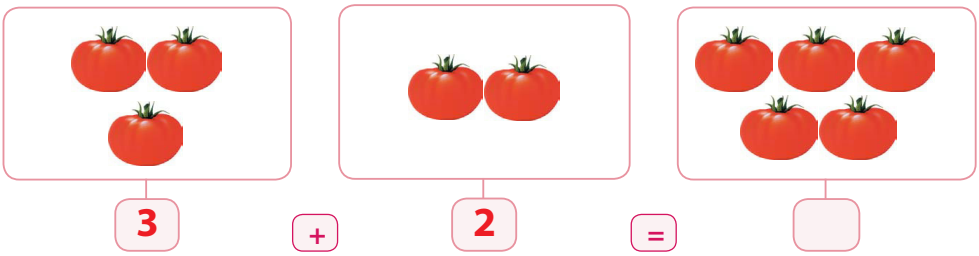


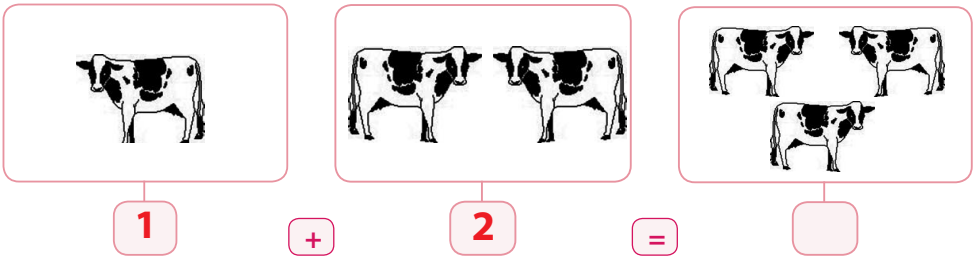


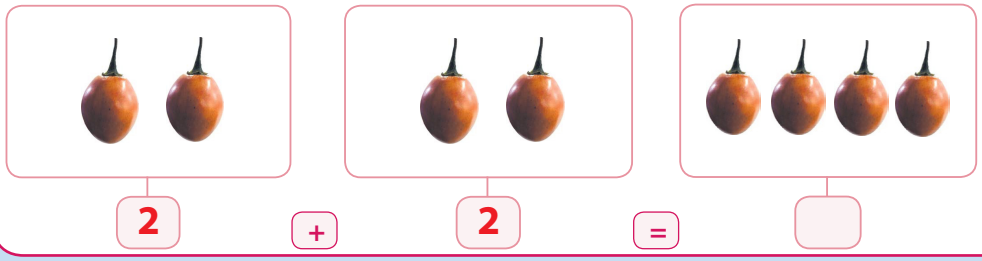


8. Follow the given example , count and add

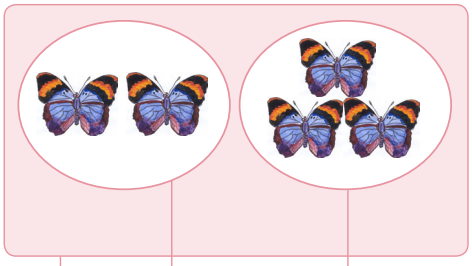




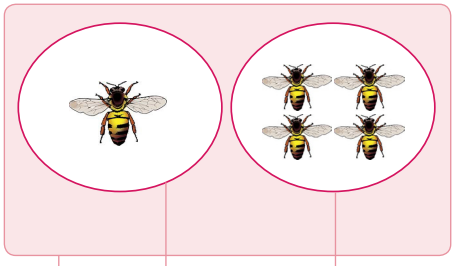




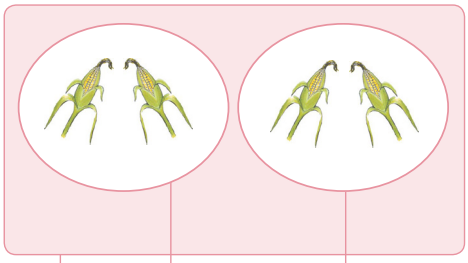
9. Follow the given example , count and add



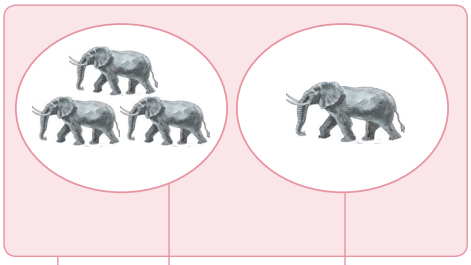
5 = 2 + ☐



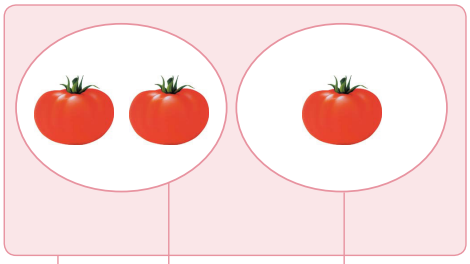
5 = 1 + ☐



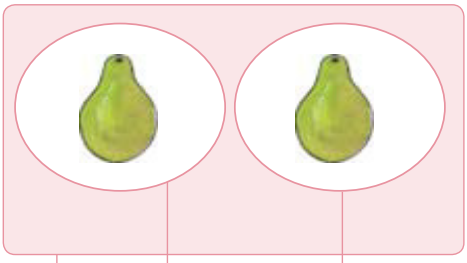
4 = 2 + ☐



4 = 3 + ☐



3 = 2 + ☐



2 = 1 + ☐

10. Follow the given example, count and add

1 + 2 = 3
/ // ///

1 + 3 =

2 + 3 =

2 + 2 =

5 = 4 + 1 5 = 3 + 2	4 = 3 + 1 4 = 2 + 2
3 = 2 + 1	2 = 1 + 1

11. Do the word problems below.

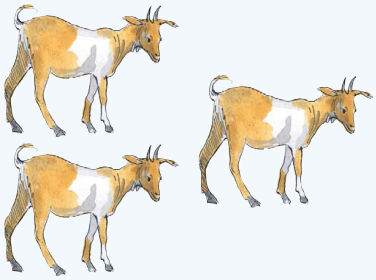
This hen has 3 eggs

This hen has 2 eggs

The two hens have ☐

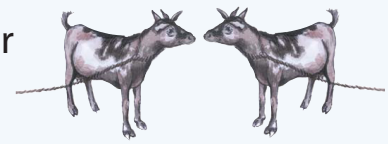
Gasore got 2 bananas from a seller, the next day he got 1 more banana.

The number of all bananas of Gasore is ☐

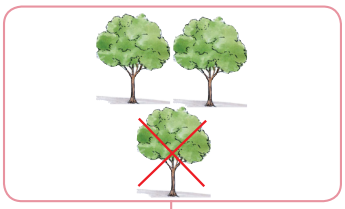


Munezero had 3 goats, and his father bought 2 more goats to him

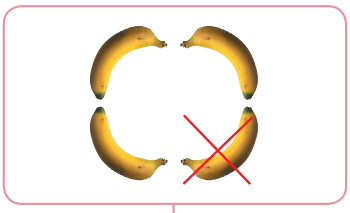
The number of all goats for Munezero is ☐



12. Count, take away and fill in the number of remaining pictures

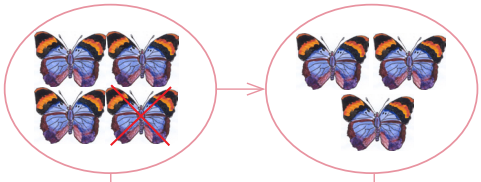


2

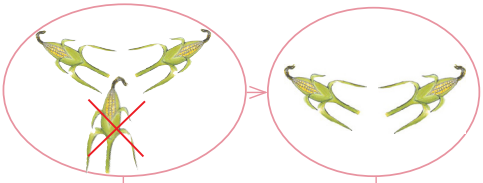


3

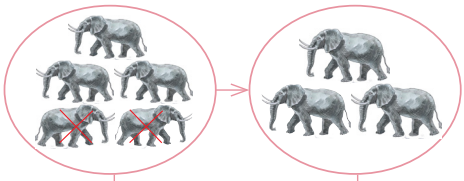
13. Count and tell the number of the remaining pictures



4 - 1 = 3



3 - 1 = 2



5 - 2 = 3

14. Take away the following numbers

5 - 4 = 1	4 - 1 =
5 - 1 =	3 - 2 =
5 - 3 =	
4 - ☐ = 3	4 - ☐ = 2

15. Read and take away.

Mahoro has 3 pens and gives to Gisa 1 pen

Now Mahoro remains with ☐ pens

Giraneza had 4 avocados, and she gives 2 avocados to her sister.

The number of avocados remaining for Giraneza is ☐

16. Do the following.

2	+	3	= ☐	5	-	2	= ☐
4	+	1	= ☐	3	-	1	= ☐
5	=	4	+ ☐	3	=	1	+ ☐
4	-	2	= ☐				

17. Fill in the box with the correct symbol: >, < or =

3-2 ☐ 3+1	2 ☐ 1
5 ☐ 3	4 ☐ 1
2 ☐ 4	3 ☐ 4
3 ☐ 3	1 ☐ 3

18. Fill in the blanks with the correct missing numbers.

1	.	.	**4**	.

Activity: Do the word problems

1. Gakuru has 3 bananas and his mother gives him 2 more bananas. Then, Gakuru gives 3 bananas to Gato. How many bananas does Gakuru remain with?

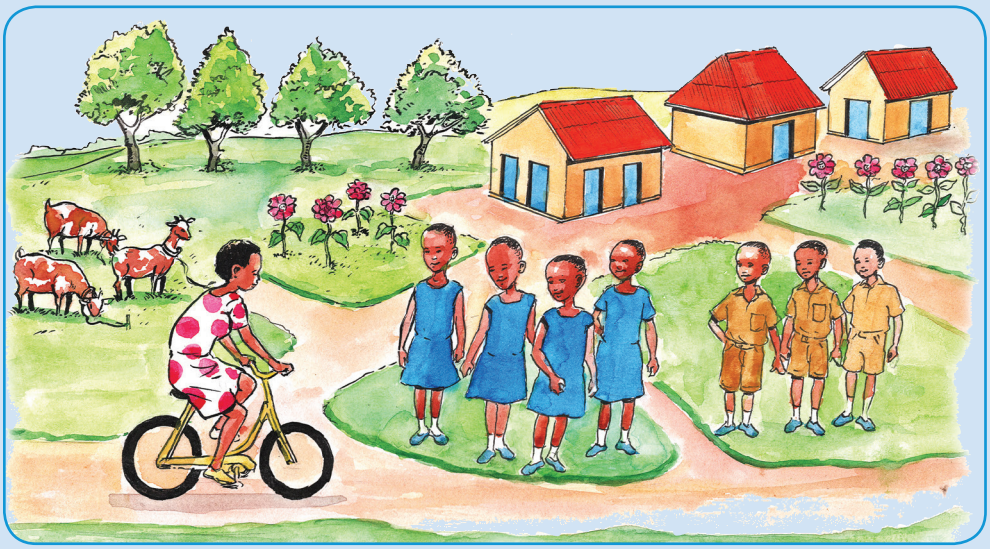
2. Mukamana had 4 beads and she lost 2 beads. Her mother gives her 1 more bead. How many beads does Mukamana have now?

WHOLE NUMBERS FROM 1 UP TO 9

Activity:

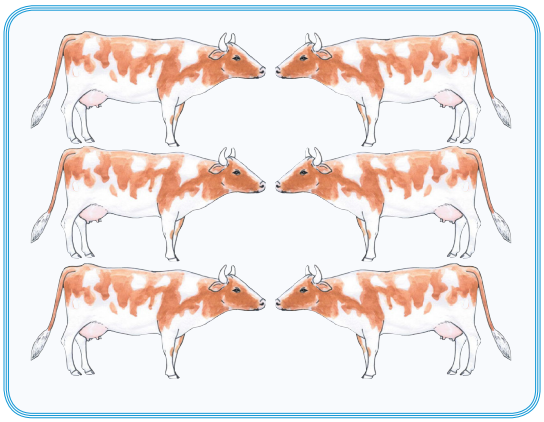
(A) Look at the picture below

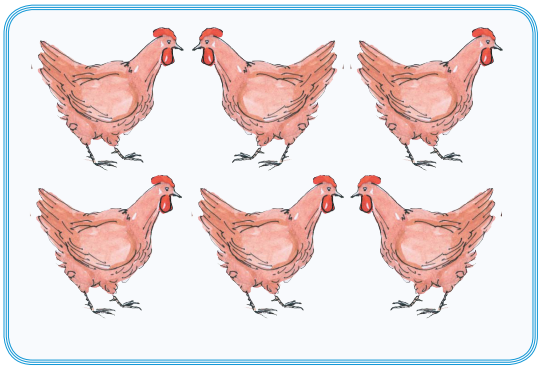
1. What do you see?
2. How many children do you see?
3. How many houses do you see?
4. How many flowers do you see?
5. There are ----------goats in the picture.

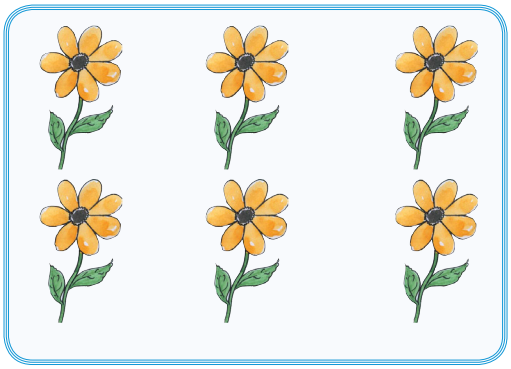


The number 6

1. Count and tell the number of pictures in each box below







2. Count and tell the number of items

6

6

3. Read and write the number 6

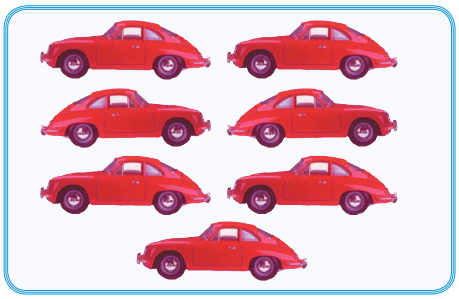
6 6

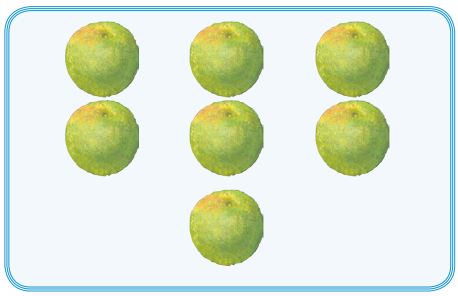
6 _ _ _ _ _ _ _ _

6 6 _ _ _ _ _ _ _ _

The number 7

1. Count and tell the number of items in each box





2. Count and tell the number of items

7

7

3. Read and write the number 7

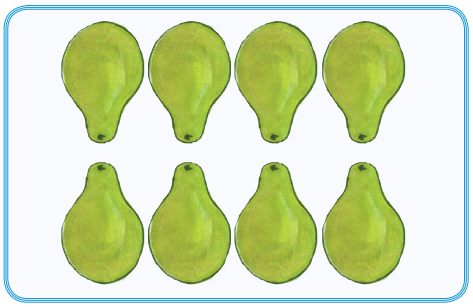
7 7

7 _ _ _ _ _ _ _ _

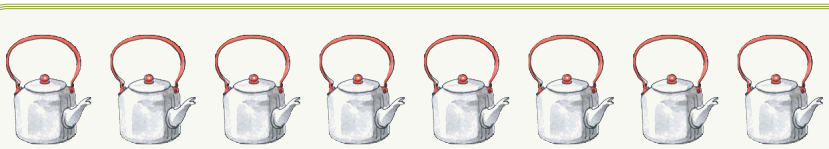
7 7 _ _ _ _ _ _ _ _

The number 8

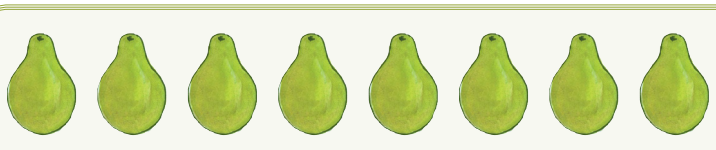
1. Count and tell the number of items in each box



2. Count and tell the number of items

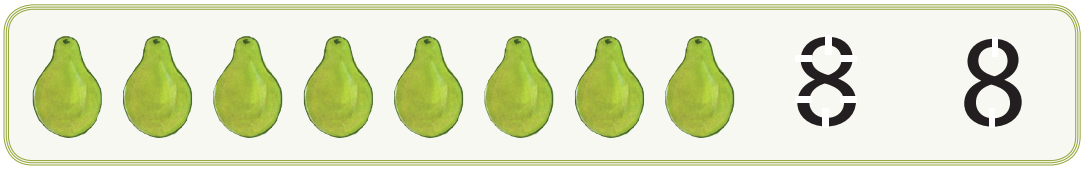


8



8

3. Read and write the number 8

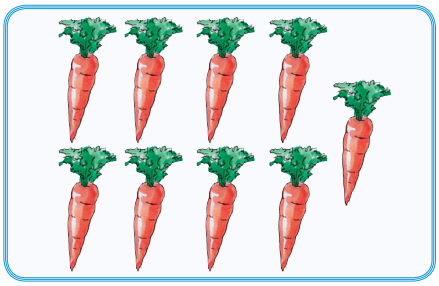


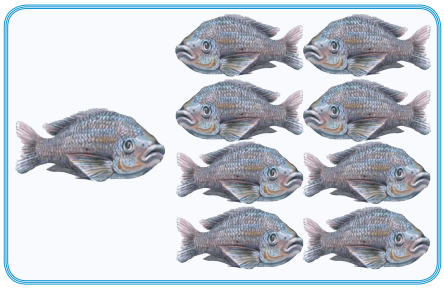
8 _ _ _ _ _ _ _ _

8 8 _ _ _ _ _ _ _ _

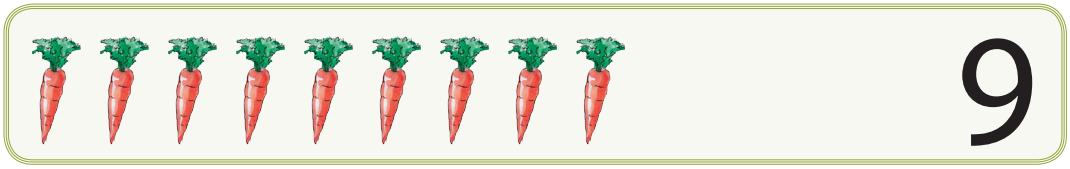
The number 9

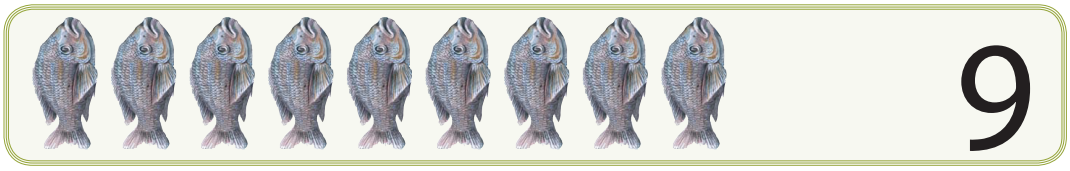
1. Count and tell the number of items in each box





2. Count and tell the number of items in each box





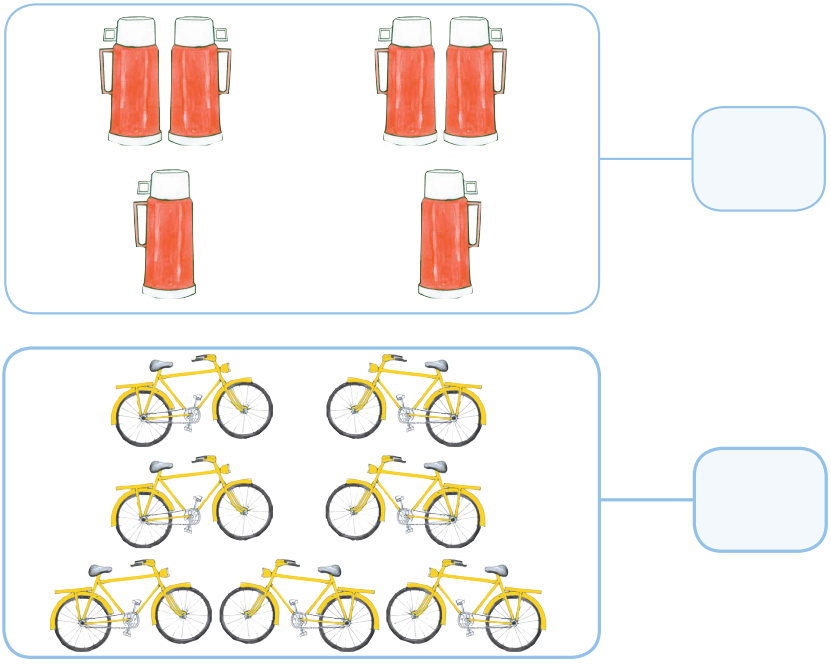
3. Read and write the number 9

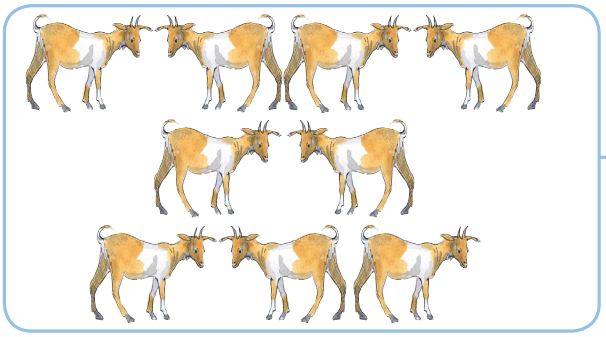
9 _ _ _ _ _ _ _ _

9 9 _ _ _ _ _ _ _

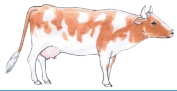
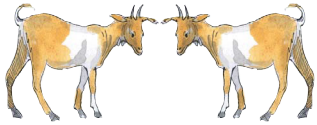
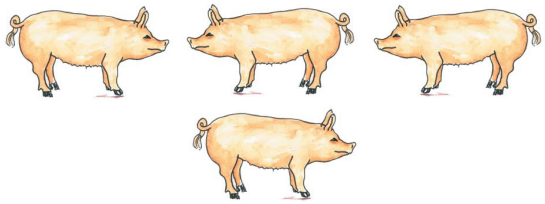
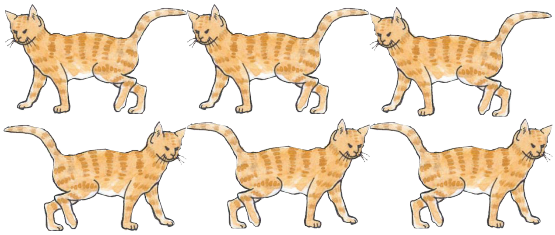
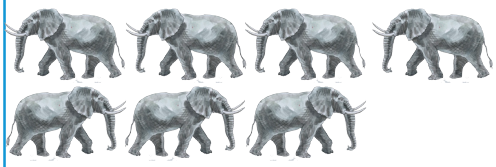
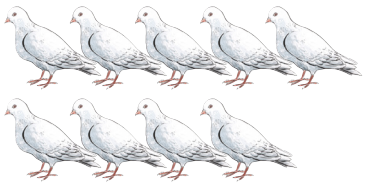
ACTIVITY:

1. Count the objects and write the number in the box





2. Count and match with the correct number of pictures

	8
	3
	9
	7
	6
	4
	5
	1
	2

3. Read and write the following numbers correctly

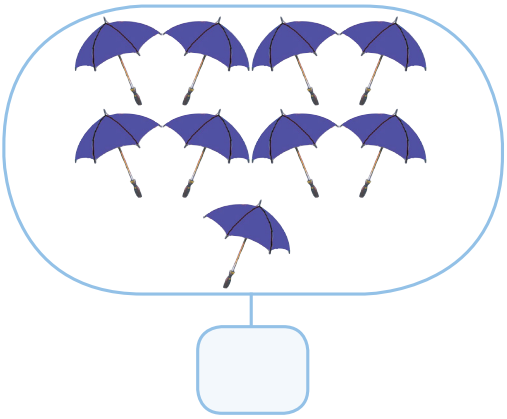
6 6 6 ___ ___ ___ ___ ___ ___ ___

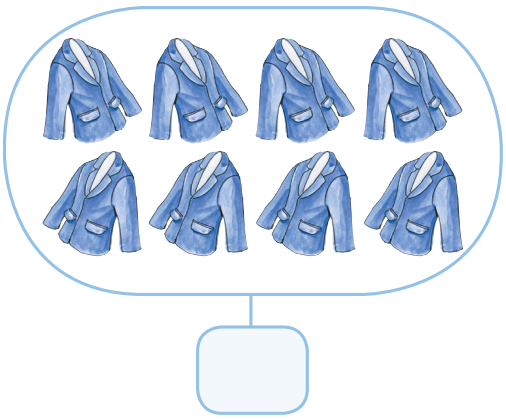
7 7 7 ___ ___ ___ ___ ___ ___ ___

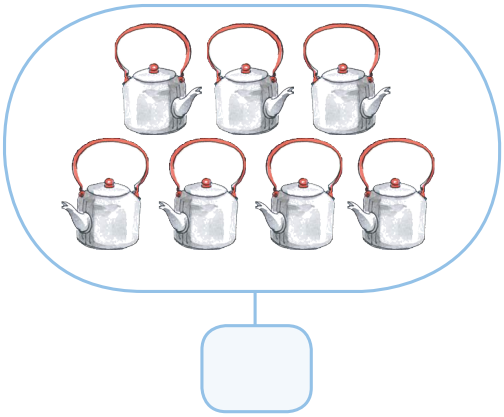
8 8 8 ___ ___ ___ ___ ___ ___ ___

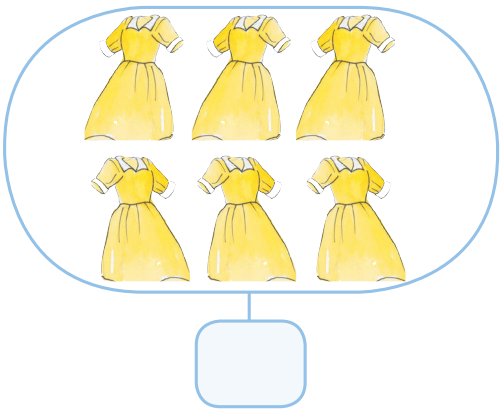
9 9 9 ___ ___ ___ ___ ___ ___ ___

4. Count the objects and write the number in the box

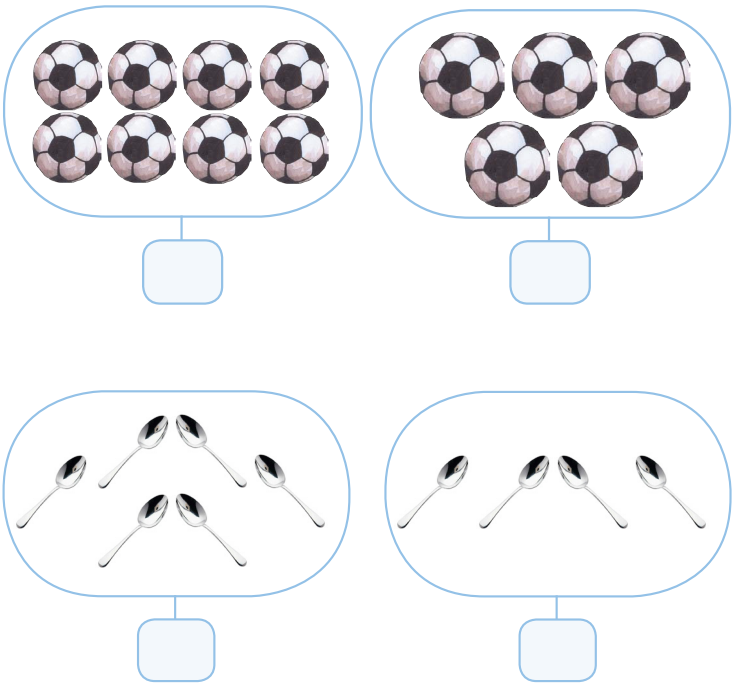




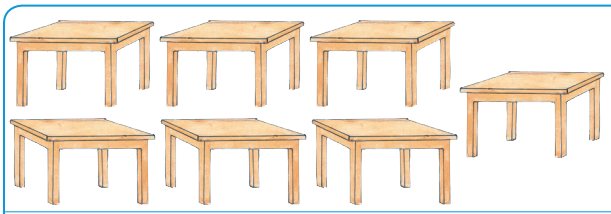
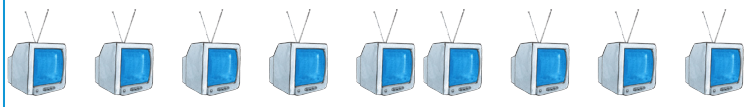




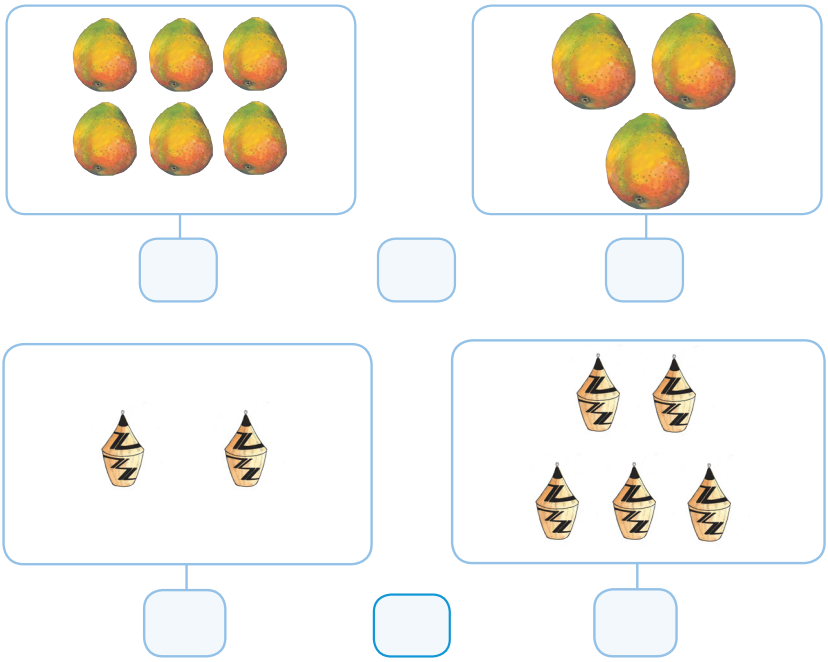
5. Count and tell the smaller and bigger number of objects.



6. Count and match the correct number with the correct pictures.

	9
	7
	6
	8

7. Count and fill in the box with: <, > or =



8. Fill in the box with the correct symbol: >, < or =

5 ☐ 6	2 ☐ 8	6 ☐ 6	2 ☐ 4
7 ☐ 3	9 ☐ 8	3 ☐ 4	9 ☐ 6
4 ☐ 4	1 ☐ 7	5 ☐ 1	3 ☐ 5

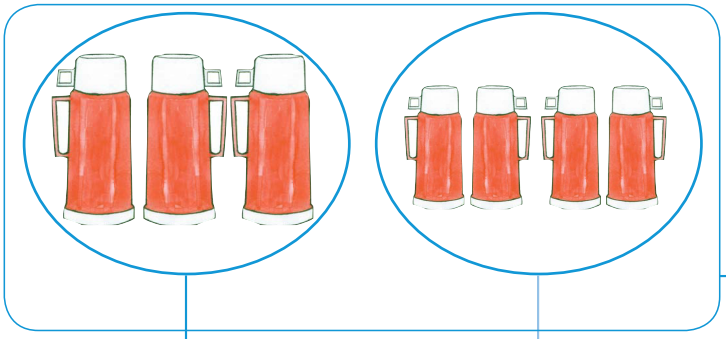
9. Arrange these numbers starting from the smallest to the biggest number.

9	**7**	**3**	**1**
_____	_____	_____	_____
7	**4**	**2**	**5**
_____	_____	_____	_____

10. Arrange these numbers starting from the biggest to the smallest number.

2	9	1	6	4
_____	_____	_____	_____	_____
6	8	3	5	7
_____	_____	_____	_____	_____

11. Count and fill in the box the number of objects



3 + 4 = .

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

8 = 7 + 1	8 = ... + 5
8 = 6 + 2	8 = 2 + ...
8 = 5 + 3	8 = 1 + ...
8 = 4 + 4	

7 = 6 + 1 7 = 5 + 2 7 = 4 + 3	7 = 3 + ... 7 = ... + 5 7 = 1 + ...
6 = 5 + 1 6 = 4 + 2 6 = 3 + 3	6 = ... + 3 6 = 2 +... 6 = ... + 5

12. Add the following numbers

8 + 1 = ☐
2 + 4 = ☐
4 + 4 = ☐

2 + 7 = ☐
3 + 5 = ☐
7 + ☐ = 9

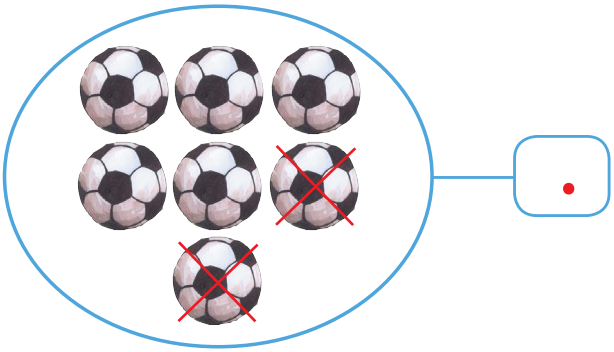
☐ + 6 = 7
☐ + 4 = 7
3 + 3 = ☐

13. Work out the following word problems.

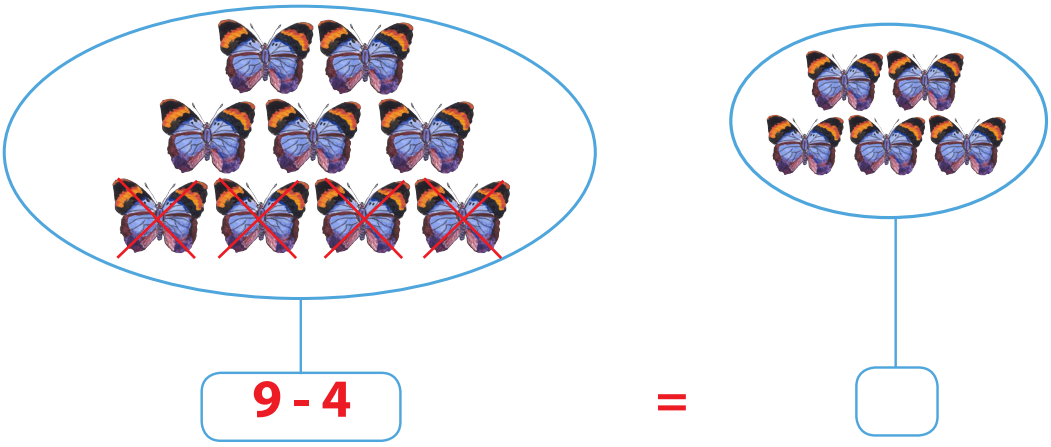
The number of red pens is ☐
The number of blue pens is ☐
The number of all pens is ☐

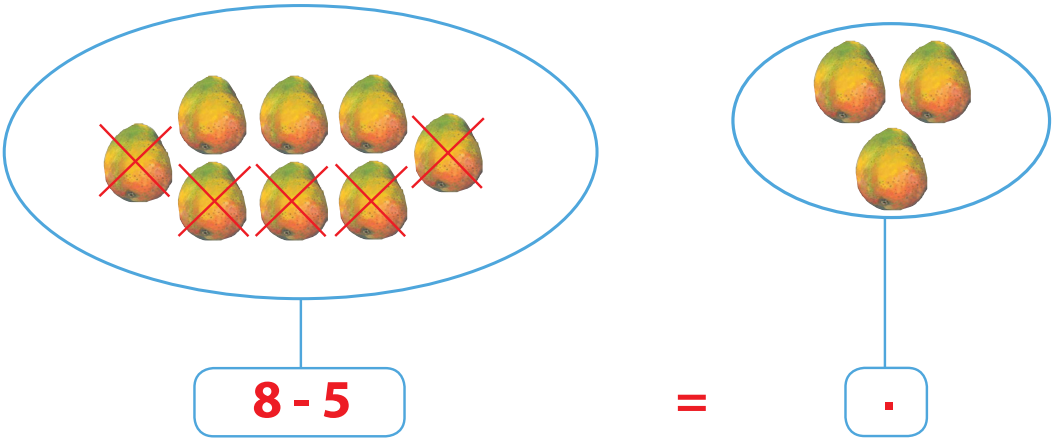
Peter buys 5 notebooks to the small shop
Kamariza buys 3 notebooks.
How many notebooks do they buy altogether?

14. Count, take away and fill in the number of remaining objects



15. Count and fill in the box the correct number.





16. Do the following subtraction.

8 - 2 = ☐	9 - 7 = ☐	☐ - 5 = 4
7 - 1 = ☐	8 - 7 = ☐	7 - ☐ = 4
9 - 4 = ☐	8 - ☐ = 7	6 - 2 = ☐

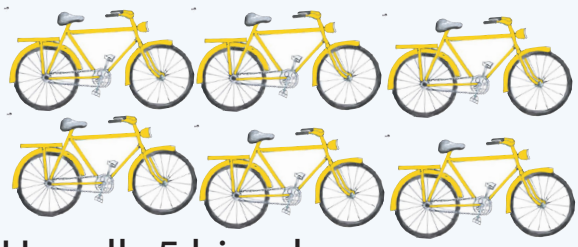
17. Look at the items below and do the following word problems

Observe and count the following flowers

Taking away all red flowers

The number of remaining flowers is ☐

Gacuruzi has 6 bicycles



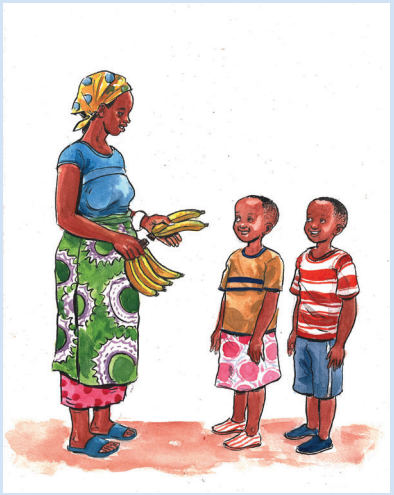
He sells 5 bicycles

Gacuruzi remains with ☐ bicycles

WHOLE NUMBERS FROM 0 UP TO 10

Activity:

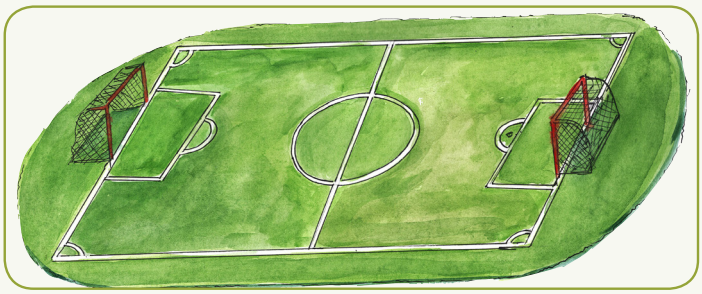
1. Look at the pictures below.
2. What do you see in the picture below?
3. How many people do you see?
4. How many bananas do you see?



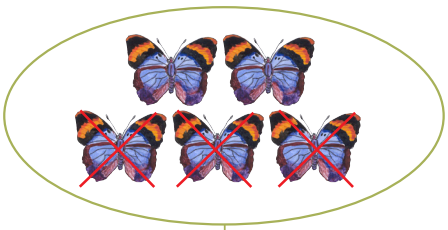
The numbers 0 and 10

1. Look at the pictures.

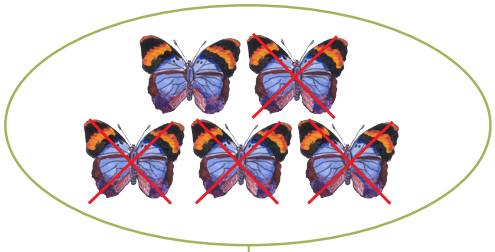
2. Count and tell the number of children in each playing ground.

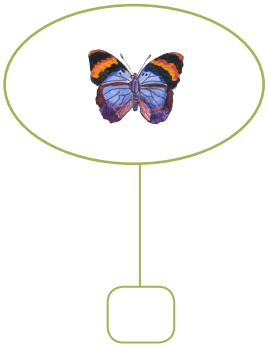


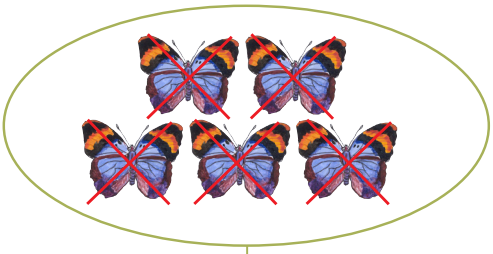
3. Count, take away and write the number of the remaining items.

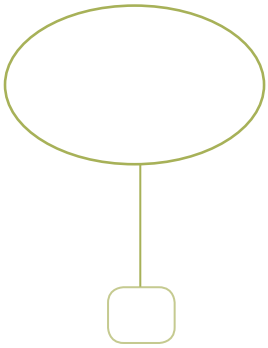


5 - 3 =



5 - 4 = 



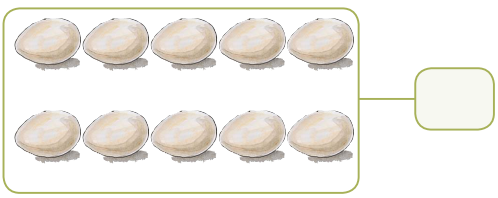
5 - 5 = 

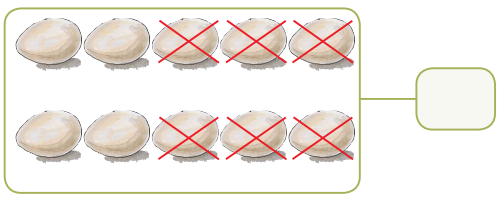
4. Read and write the numbers 0 and 10 .

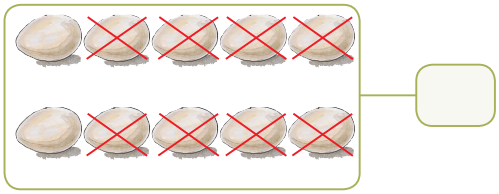
0 __ __ __ __ __ __ __ __

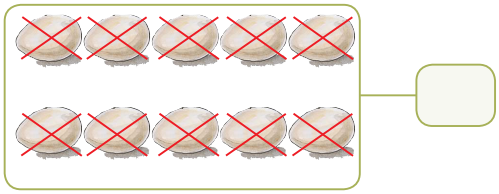
10 10 __ __ __ __ __ __

5. Count and fill in the box with the correct number

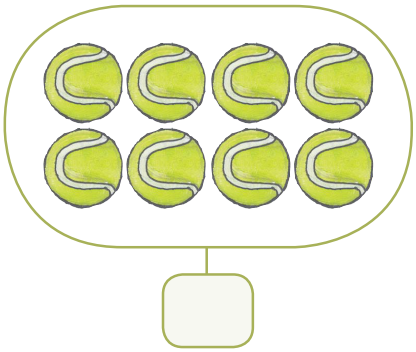


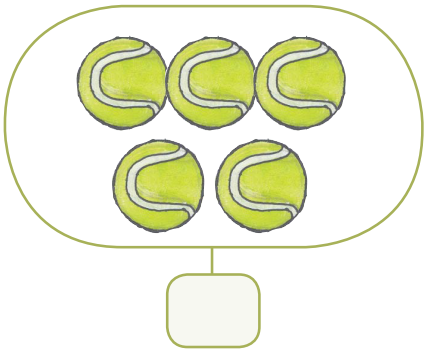


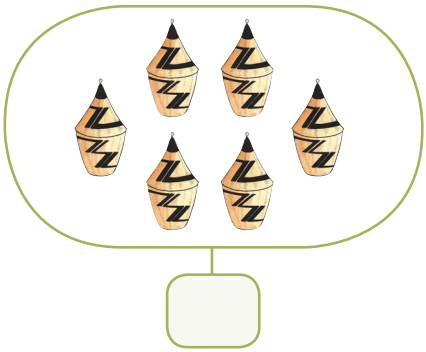


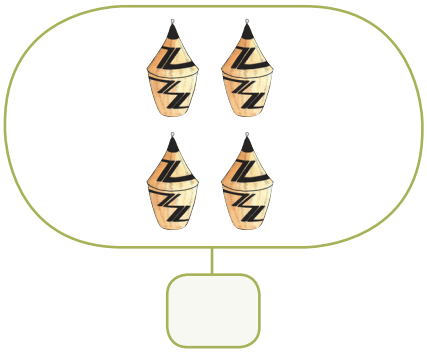


6. Count, write and tell the smaller and bigger number of objects.

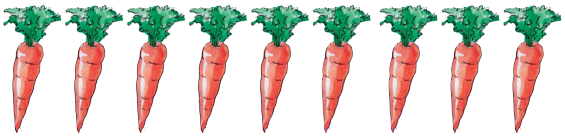
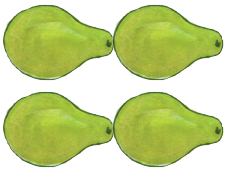




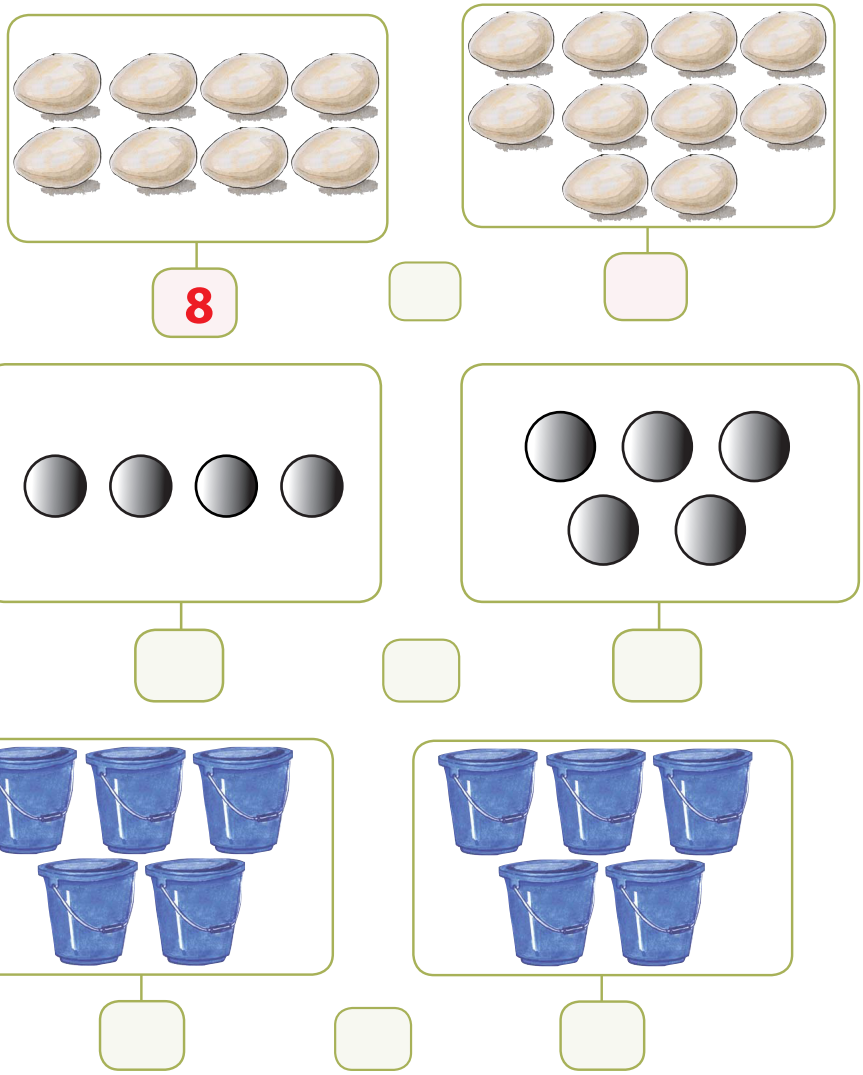




7. Count and write the number of objects in the box .

8. Count, write the number and fill in the box with the correct symbol: <, > or = .



9. Fill in the boxes with the correct symbol >, < or =

10 ☐ 7	0 ☐ 1
8 ☐ 10	3 ☐ 0
10 ☐ 10	1 ☐ 10

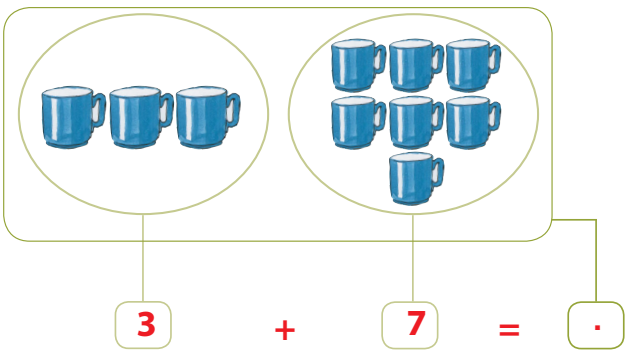
10. Arrange these numbers **starting from the smallest to largest number.**

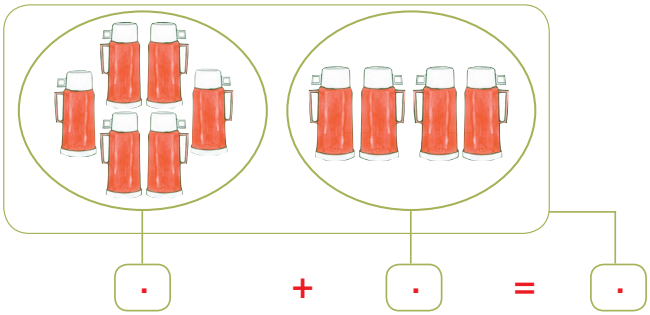
9	0	3	10
_____	_____	_____	_____
7	4	10	5
_____	_____	_____	_____

11. Arrange these numbers **starting from the biggest to smallest number.**

2	9	0	10	6	4
____	____	____	____	____	____
6	8	10	5	7	
____	____	____	____	____	

12. Count the items below and **fill in the box the correct number**





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

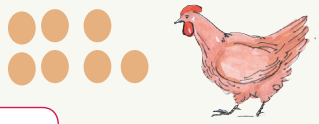
13. Add the following numbers.

9 + 1 = ☐	3 + 7 = ☐	☐ + 6 = 10
2 + 0 = ☐	5 + 5 = ☐	4 + 5 = ☐
6 + 4 = ☐	7 + ☐ = 10	8 + 0 = ☐

14. Do the following word problems.

This hen has 3 eggs

This hen has 7 eggs



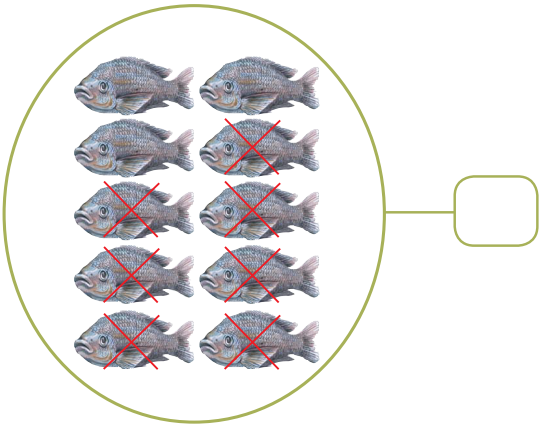
All eggs of two hens are ☐

Karabo has 5 blue pens

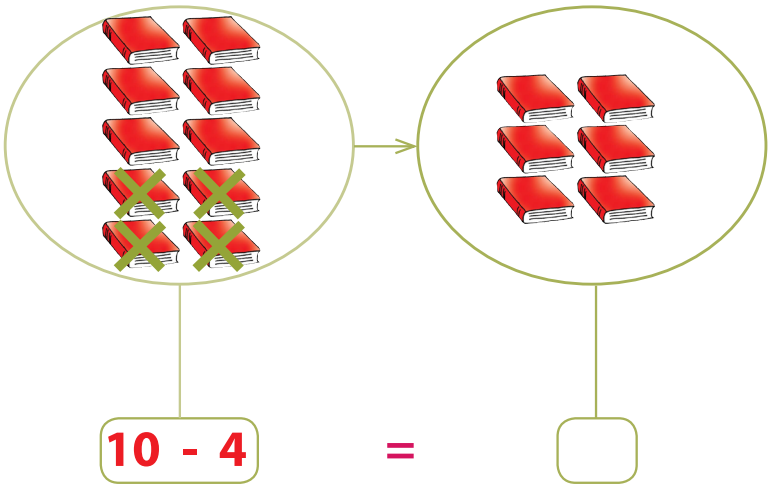
Munezero gives to her 5 more red pens.

Karabo has ☐ blue and red pens altogether

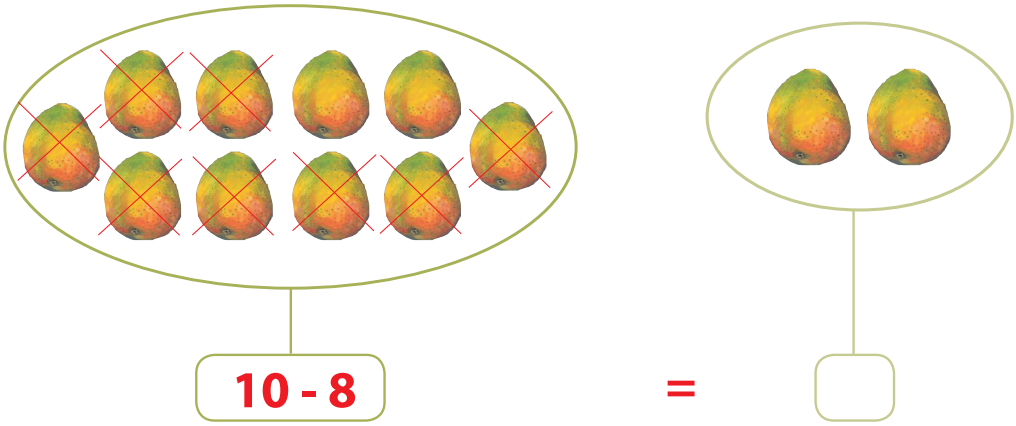
15. Count, take away and write the correct number in the box.



16. Count and fill in the correct number of items in the box.



10 - 4 = ☐



10 - 8 = ☐

17. Subtract the following numbers

10 - 1 = ☐	10 - 7 = ☐	☐ - 6 = 4
10 - 0 = ☐	10 - 10 = ☐	10 - 4 = ☐
10 - 6 = ☐	10 - ☐ = 4	10 - 2 = ☐

18. Do the following word problems

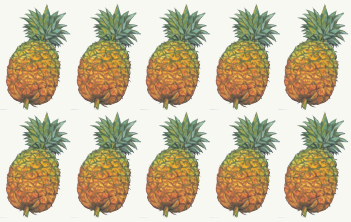
1.

Ripe bananas are ( )

Unripe bananas are ( )

All bananas are ( )

2. David has 10 pineapples



He sells 5 pineapples

David remains with how many pineapples?

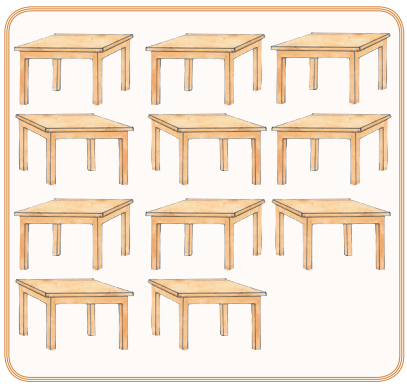
WHOLE NUMBERS FROM 0 TO 20

Activity 1

1. Look at the picture below.
2. What do you see in the picture?
3. How many people do you see in the picture?

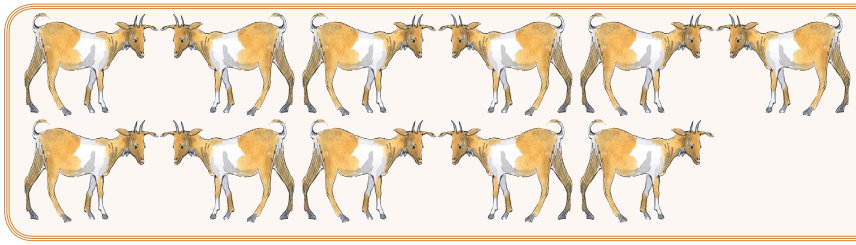
The number 11

1. Count and tell the number of objects in each box



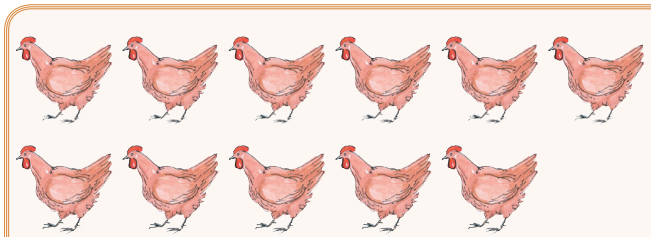
2. Count and tell the number of animals.

11



11

3. Read and write the number 11.



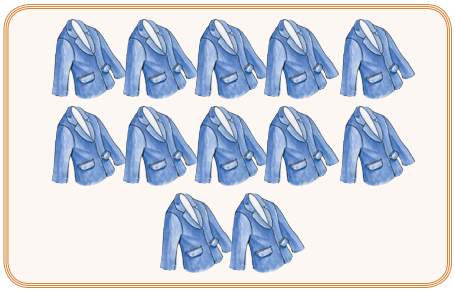
11 11

11 11 _ _ _ _ _ _ _ _

11 11 _ _ _ _ _ _ _ _

The number 12

1. Count and tell the number of objects in each box.



2. Count and tell the number of objects.

12

12

3. Read and write the number 12.

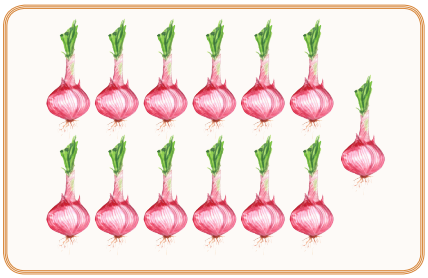
~~12~~ ~~12~~

12 12 ___ ___ ___ ___ ___ ___

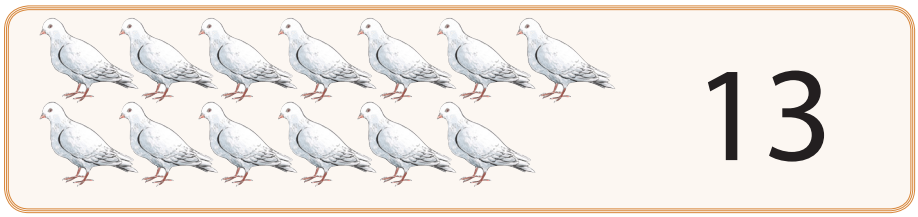
12 12 ___ ___ ___ ___ ___ ___

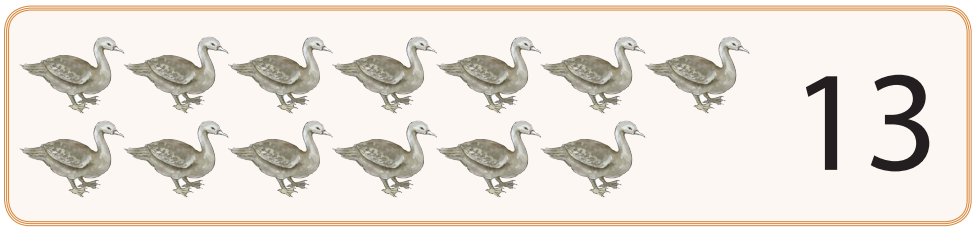
The number 13

1. Count and tell the number of items in each box.

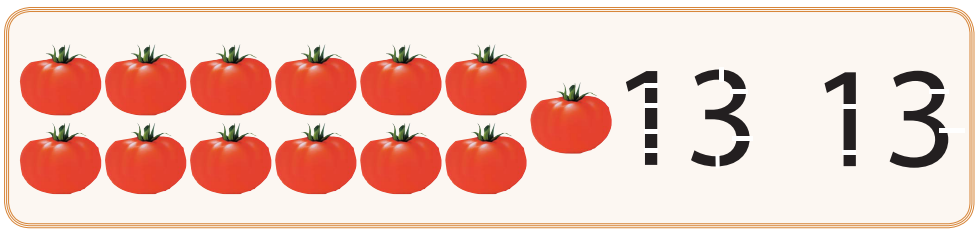


2. Count and tell the number of birds .





3. Read properly and write the number 13.

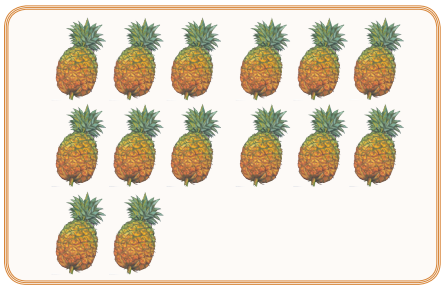


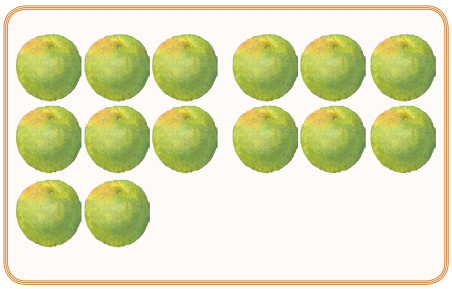
13 ___ ___ ___ ___ ___ ___ ___

13 13 ___ ___ ___ ___ ___ ___

The number 14

1. Count and tell the correct number of fruits in each box.





2. Count and tell the number of objects.

14

14

3. Read and write the number 14.

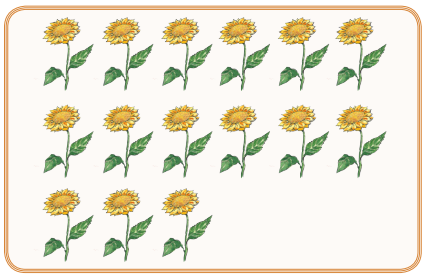
14 14

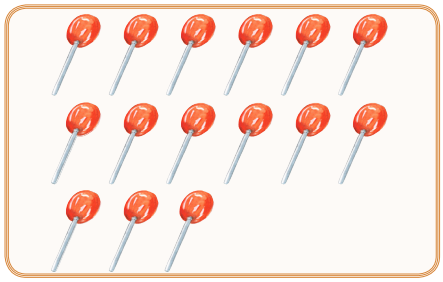
14 __ __ __ __ __ __ __ __

14 14 __ __ __ __ __ __ __

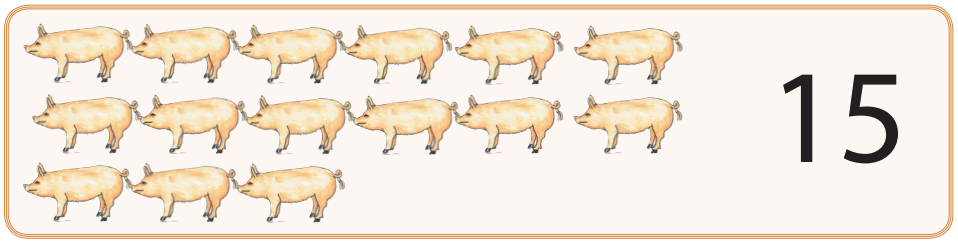
The number 15

1. Count and tell the number of items in each box.

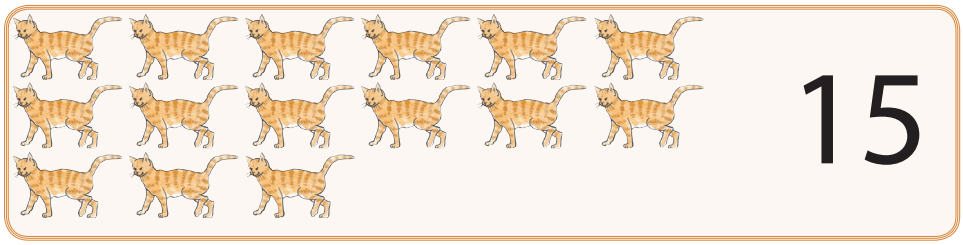




2. Count and tell the number of animals in each box.

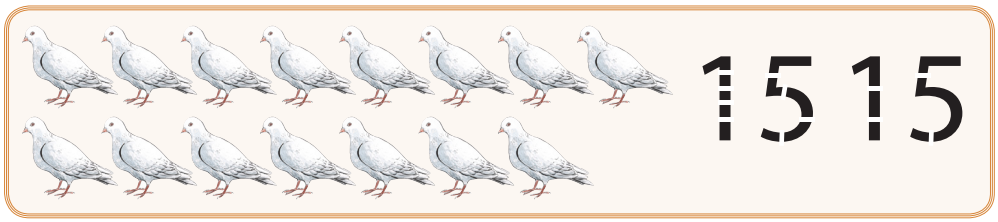


15



15

3. Read and write the number 15



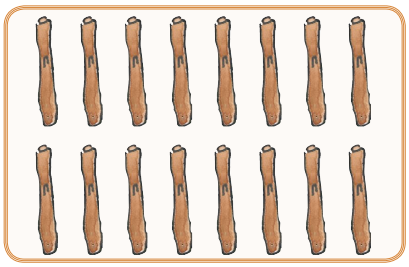
15 15

15 _ _ _ _ _ _ _

15 15 _ _ _ _ _ _ _

The number 16

1. Count and tell the number of objects in each box.



2. Count and tell the number of objects in each box.

16

16

3. Read and write the number 16.

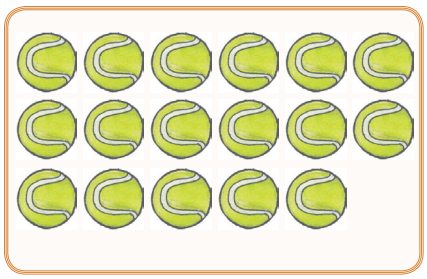
16 16

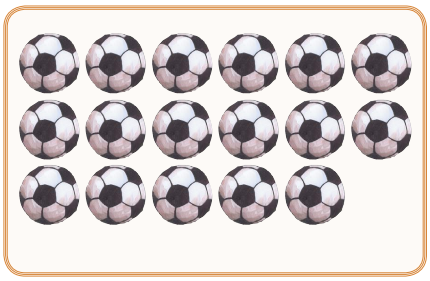
16 ___ ___ ___ ___ ___ ___ ___

16 16 ___ ___ ___ ___ ___ ___ ___

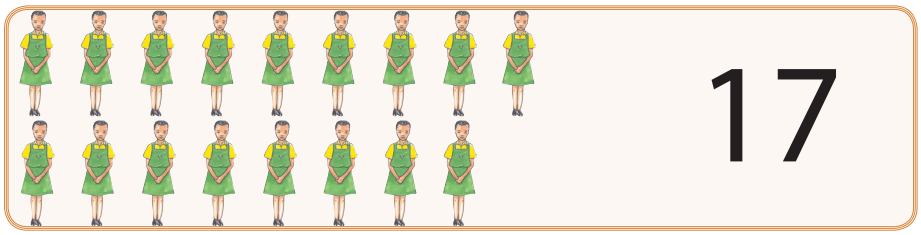
The number 17

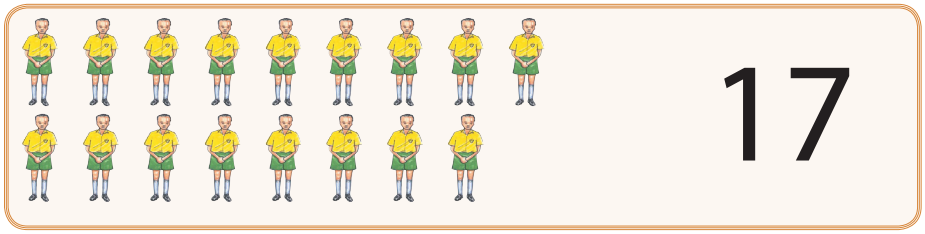
1. Count and tell the number of objects in each box.





2. Count and tell the number of children in each box





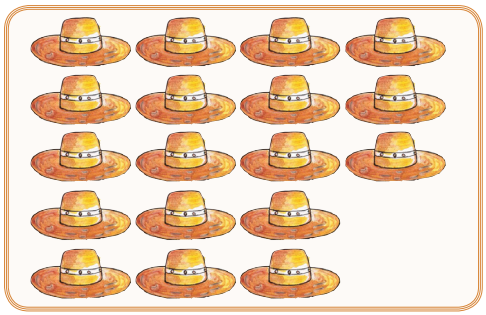
3. Read and write the number 17.

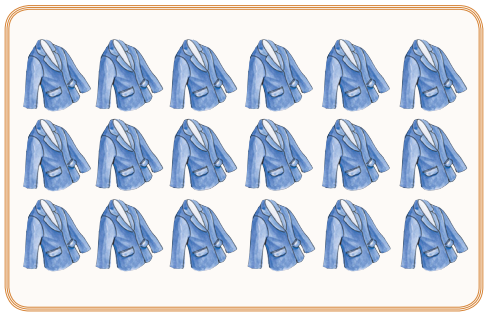
17 ___ ___ ___ ___ ___ ___ ___

17 17 ___ ___ ___ ___ ___ ___

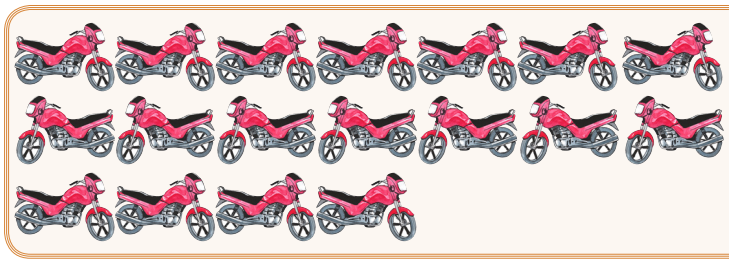
The number 18

1. Count and tell the number of objects in each box.

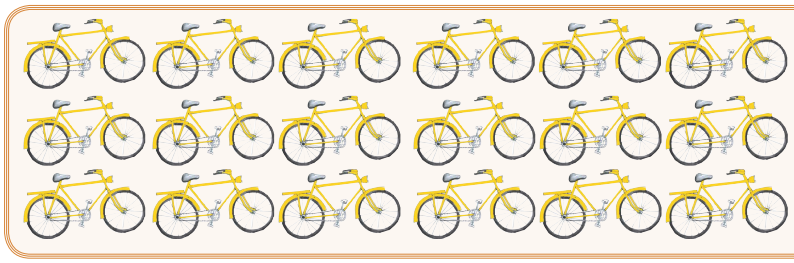




2. Count and tell the number of objects in the boxes

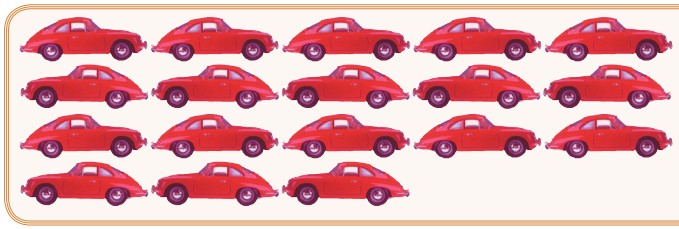


18



18

3. Read and write the number 18.



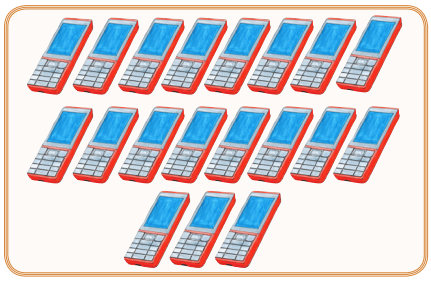
18 18

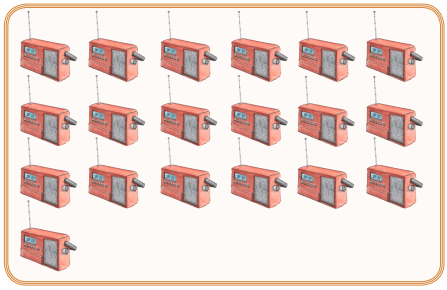
18 ___ ___ ___ ___ ___ ___ ___

18 18 ___ ___ ___ ___ ___ ___ ___

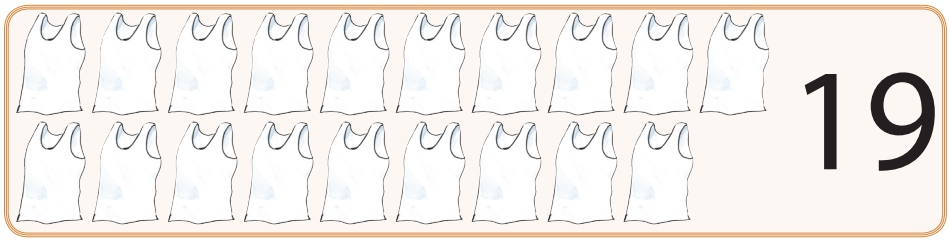
The number 19

1. Count and tell the number of objects in each box.

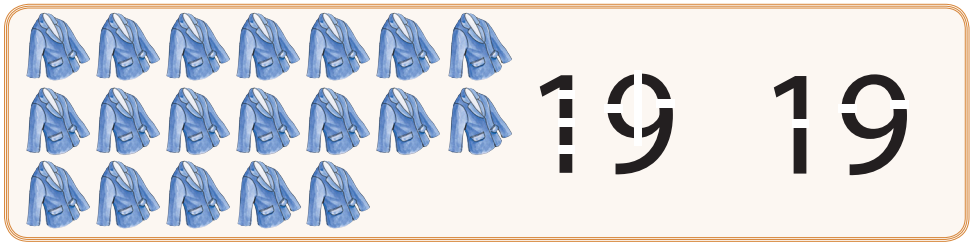




2. Count and tell the number of items in each box



3. Read and write the number 19.

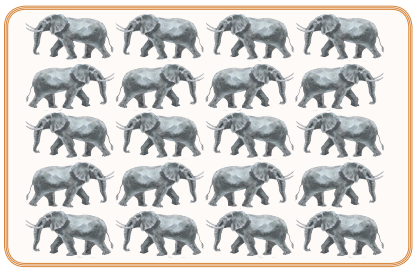


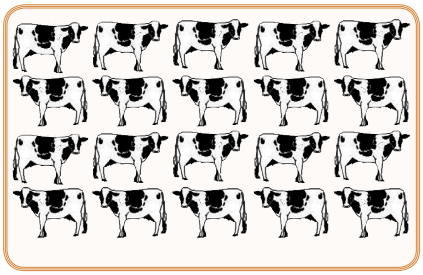
19 ___ ___ ___ ___ ___ ___ ___

19 19 ___ ___ ___ ___ ___ ___

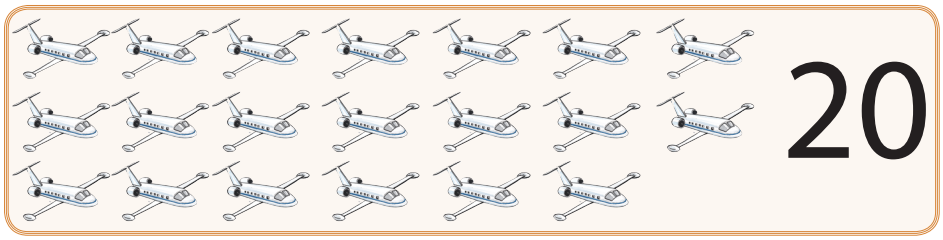
The number 20

1. Count and tell the number of objects in each box.

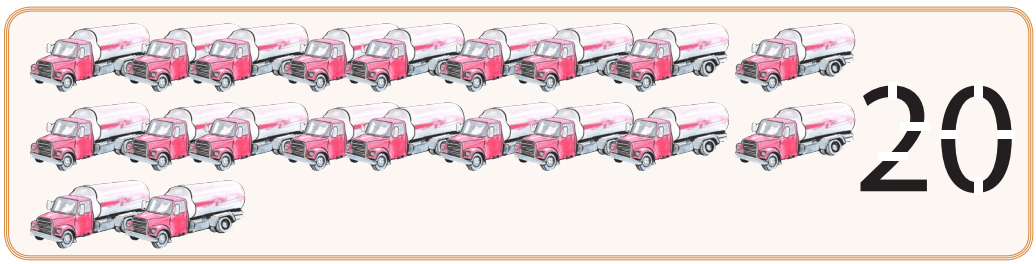




2. Count and tell the number of objects in each box.



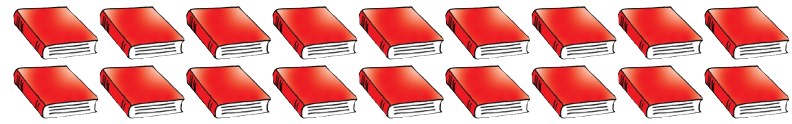
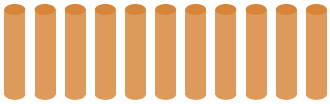
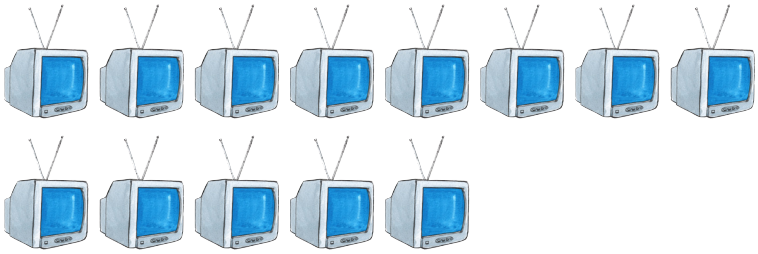
3. Read and write the number 20.



20 ___ ___ ___ ___ ___ ___ ___

20 20 ___ ___ ___ ___ ___ ___ ___

4. Count and write the correct number of items in each box

5. Read and write the following numbers.

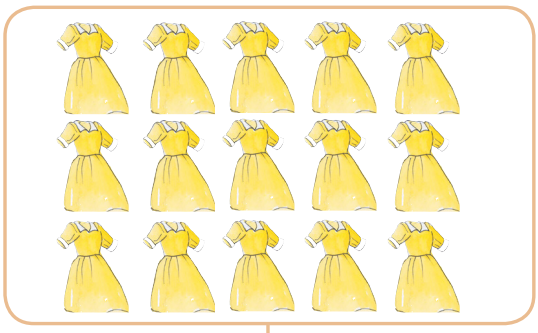
11	11	11	____	____	____	____	____	____
12	12	12	____	____	____	____	____	____
13	13	13	____	____	____	____	____	____
14	14	14	____	____	____	____	____	____
15	15	15	____	____	____	____	____	____
16	16	16	____	____	____	____	____	____
17	17	17	____	____	____	____	____	____

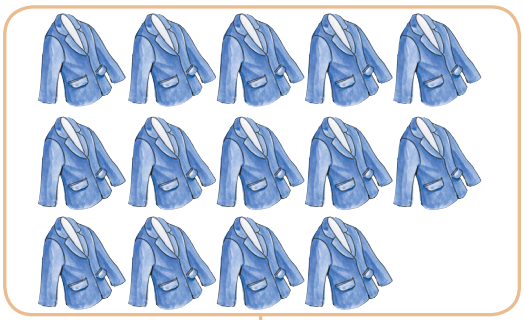
18 18 18 ___ ___ ___ ___ ___ ___

19 19 19 ___ ___ ___ ___ ___ ___

20 20 20 ___ ___ ___ ___ ___ ___

6. Count and write the number of items in the box.

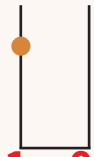
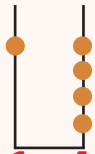
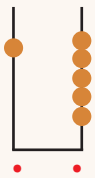
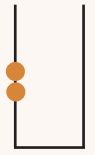




7. Count and tell the number of Tens and the remaining pens.

10 1	1 tens 1 pencil remaining
10 2	1 tens .... pencils remaining
10 3	1 tens .... pencil remaining
10 4	1 tens .... pencils remaining
10 5	1 tens .... pencils remaining
10 6	1 tens .... pencils remaining
10 7	1 tens .... pencils remaining
10 8	1 tens .... pencils remaining
10 9	1 tens .... pencils remaining
10 10	.... tens

8.a. Look at the examples below, count and fill in the correct number of beads.

Tens Ones  1 0	Tens Ones  1 4
Tens Ones  . .	Tens Ones  . .

b. Look at the example and fill in the correct number in the box.

10		13		17		20	
Tens	Ones	Tens	Ones	Tens	Ones	Tens	Ones
1	0	.	3	1	.	.	.

c. Look at the example below and fill in the missing number.

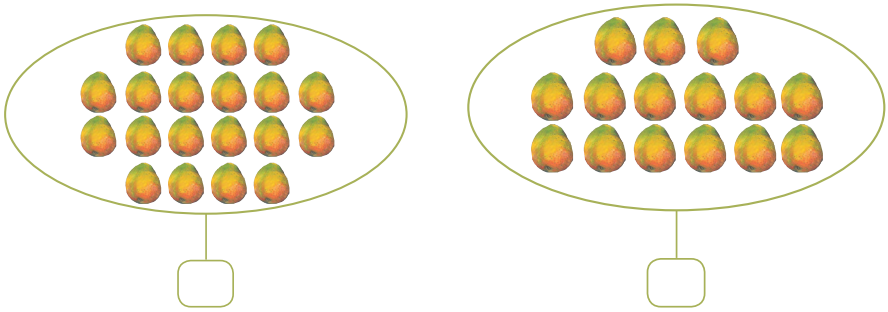
14		...3		1...		...	
Tens	Ones	Tens	Ones	Tens	Ones		Ones
1	4	1	3	1	9	1	1

d. Look at the example below and fill in the blanks with the correct numbers.

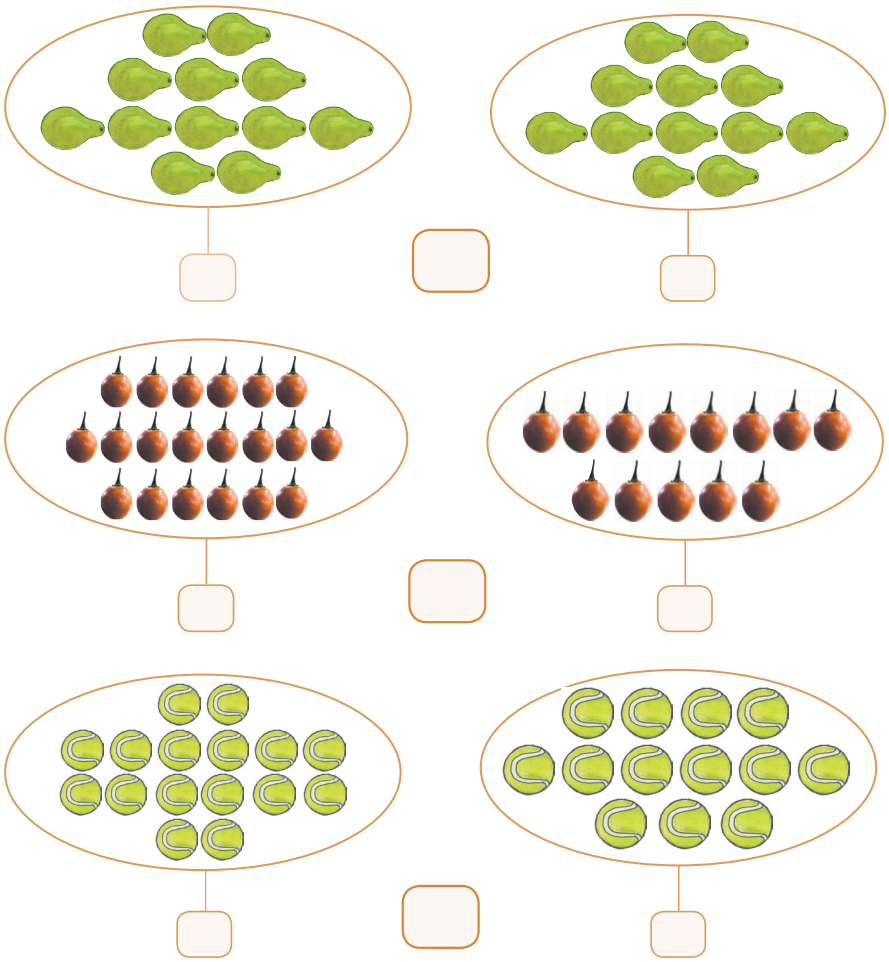
16= 1 tens 6 ones 12=... tens ...ones 20= ... tens ... ones

10= ... tens 15= 1ten ...ones 19=...tens 9 ones

9. a. Count, write and tell the small and the big number of objects between the two boxes.



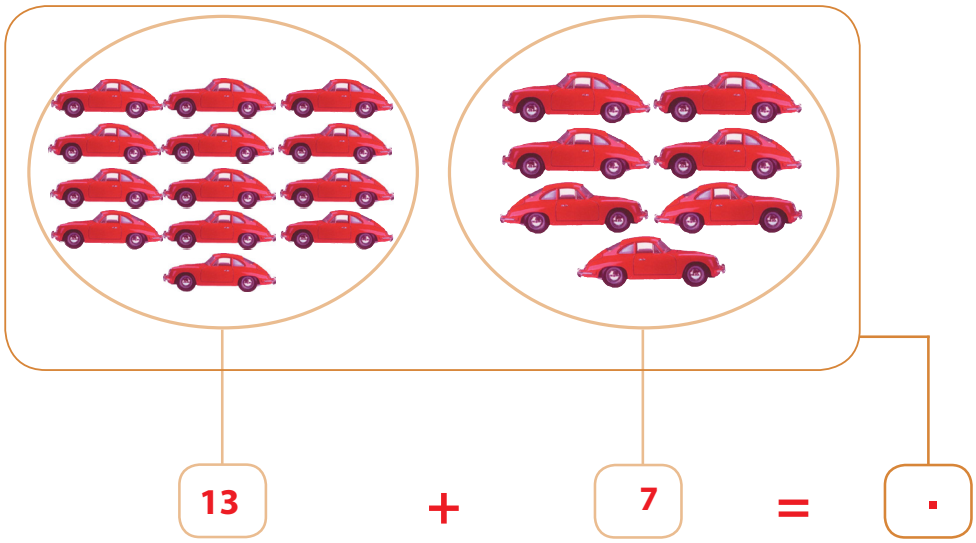
b. Count, write and compare numbers with the correct symbol: <, > or =



c. Fill in the box with the correct symbol: >, < or =

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

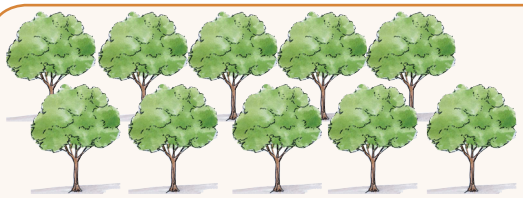
d. Count and fill in the missing number in the box.



e. Do the following addition of numbers

18 + 1 = ☐	2 + 14 = ☐	17 + ☐ = 20
2 + 14 = ☐	14 + 4 = ☐	☐ + 6 = 10
14 + 4 = ☐	18 + 1 = ☐	☐ + 14 = 20
12 + 7 = ☐	13 + 5 = ☐	8 + 0 = ☐

f. Do the following word problems.

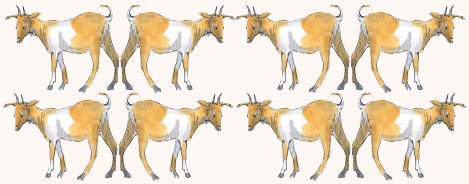


Teta planted10 tress

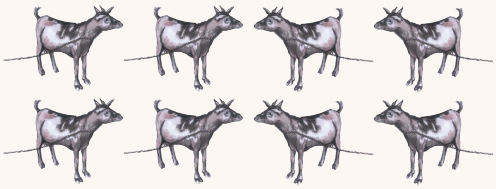
Tito planted 2 trees

The number of all planted trees is ☐

Muhire has 8 goats



Muhire has ☐ goats all together



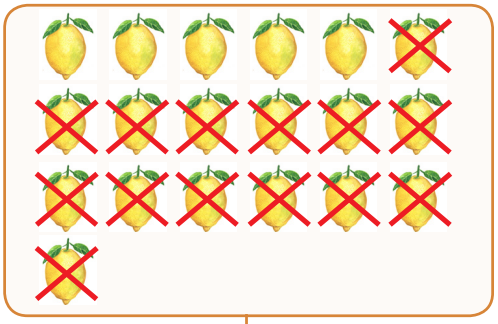
Keza gives to him 8 more goats

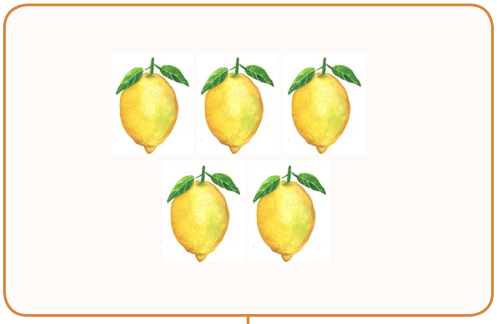
g. Count and tell the number of the remaining objects.

☐

h. Count, tell and write the number of the remaining objects.

18 - 4 = ☐





19 - 14 = ☐

i. Do the following subtraction of numbers.

18 - 2 = ☐

9 - 7 = ☐

17 - 1 = ☐

19 - 4 = ☐

15 = ☐ - 5

18 - 17 = ☐

18 - ☐ = 7

☐ - 1 = 14

17 - ☐ = 14

j. Do the following word problems

Giramata has 15 doves and ten doves are laying eggs. How many doves are not yet laying eggs?

Marthe buys 20 avocados to be sold and 15 are ripe avocados. Find the number of unripe avocados.

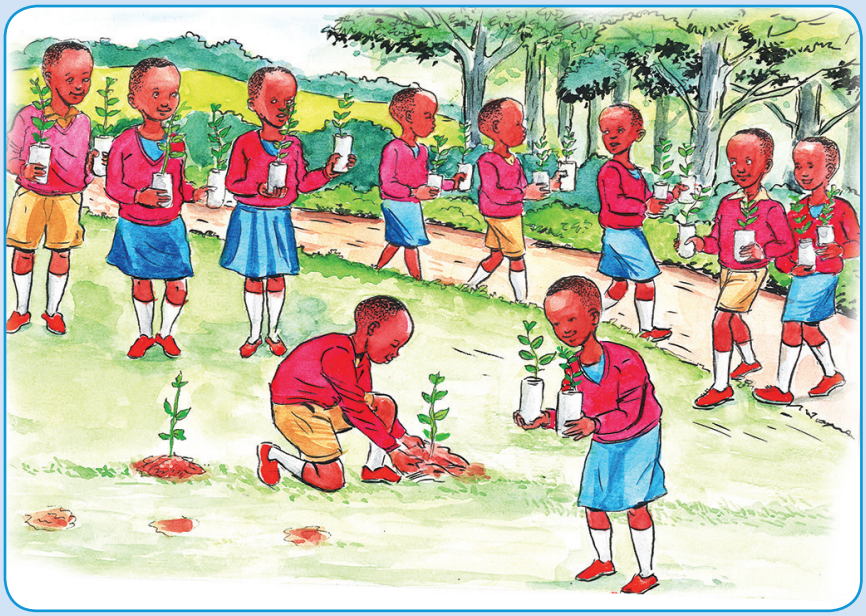
MULTIPLICATION AND DIVISION BY 2

Activity

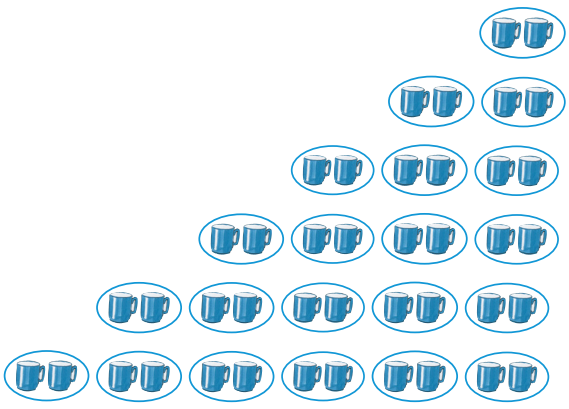
A. Look at the picture below carefully.

B. How many children do you see in the picture?

C. What are the children doing?

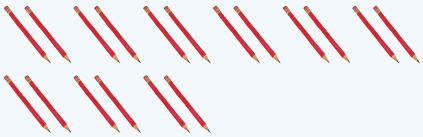


Look at the number of cups in each circle.
Find out the relationship between number of cups in circles, the number of circles and the following numbers: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20



Look at the table below and tell the relation between addition and multiplication.

2 x 1 =2		2
2 x 2=4		2+2=4
2 x 3=6		2+2+2=6
2 x 4=8		2+2+2+2=8
2 x 5=10		2+2+2+2+2=10
2 x 6=12		2+2+2+2+2+2=12
2 x 7=14		2+2+2+2+2+2+2=14
2 x 8=16		2+2+2+2+2+2+2+2=16

2x9=18		2+2+2+2+2+2+2+2+2=18
2x10=20		2+2+2+2+2+2+2+2+2+2=20

Fill in the box with the correct number

2 = 2 x 1

10 = 2 x ☐

8 = 2 x ☐

4 = 2 x ☐

16 = ☐ x 8

12 = ☐ x 6

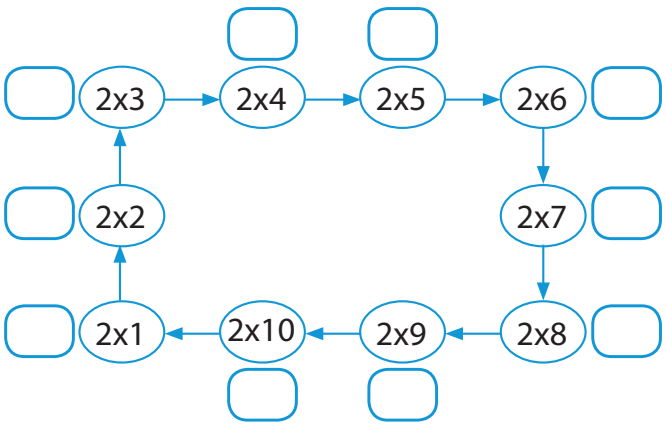
20 = 2 x ☐

18 = 2 x ☐

Fill in the blanks with the missing numbers.

X 2

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



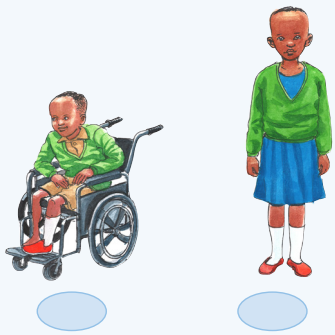
Do the following word problems

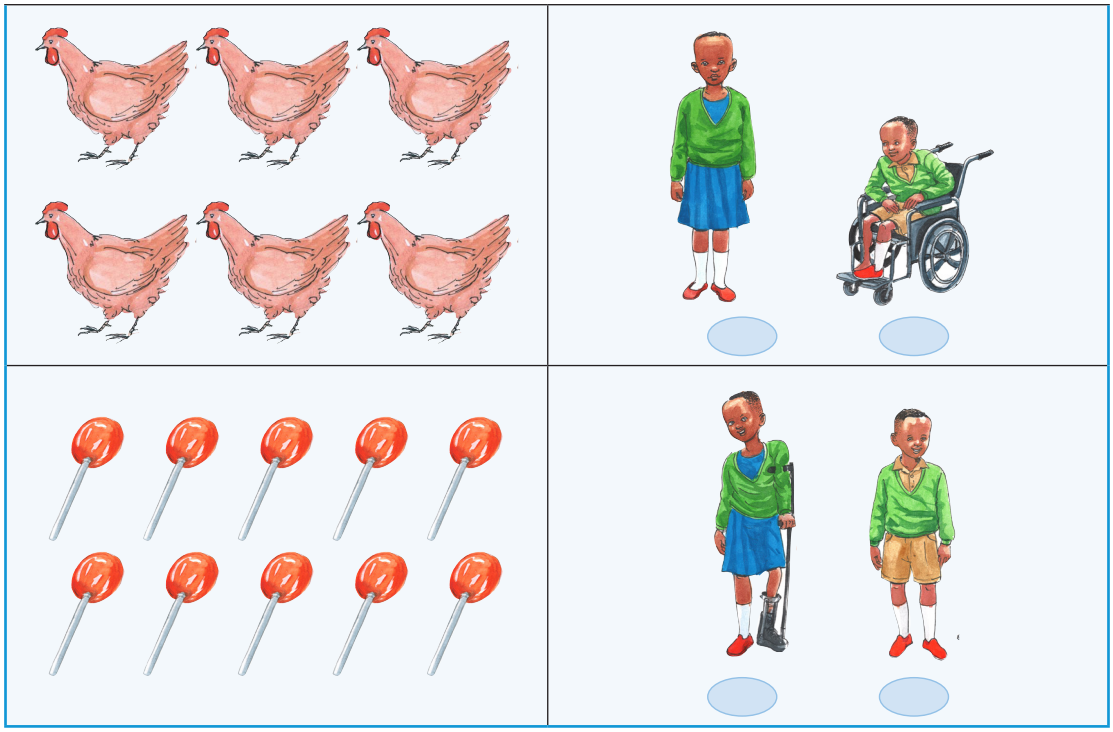
Fifi and Teta have 2 pens everyone. How many pens do they have altogether.

1 dove has (.) legs

5 dove have (.) legs altogether

Look at the pictures and tell the correct number of equal shares to everyone.





Fill in the box with the correct number

2 : 1 = 2

12 : 2 = ☐

18 : 2 = ☐

8 : 2 = ☐

10 : 2 = ☐

18 : 2 = ☐

20 : 2 = ☐

Fill in the blanks with the missing numbers.

: 2

4	6	12	8	14	20	16	18	2	10
2	.	.	.	.	10	.	.	.	.

DO the following word problems

Giramata and Giraneza have 8 guavas to share equally.
Every child has (.) guavas.

Mum buys 6 eggs and shares them equally to 2 children.
Every child gets (.) eggs.

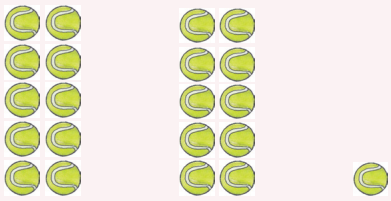
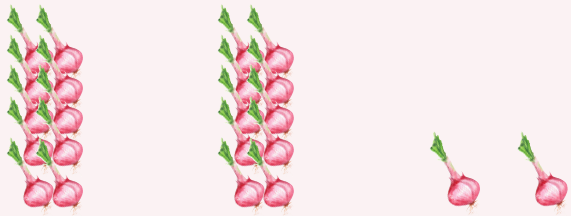
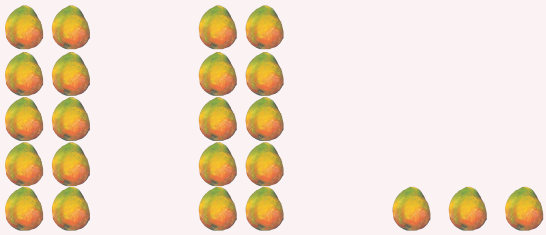
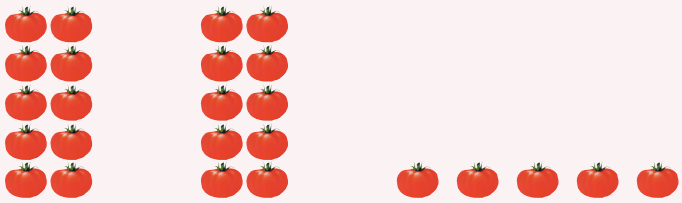
WHOLE NUMBERS FROM 0 UP TO 50

Activity

1. Look at the picture carefully.
2. What do you see in the picture?
3. What is every person doing?

Whole numbers from 21 up to 25

Activity 1. Count objects in each box and tell the number

	21
	22
	23
	24
	25

Activity 2. Read and write the following numbers.

21 21 ....

22 22 ....

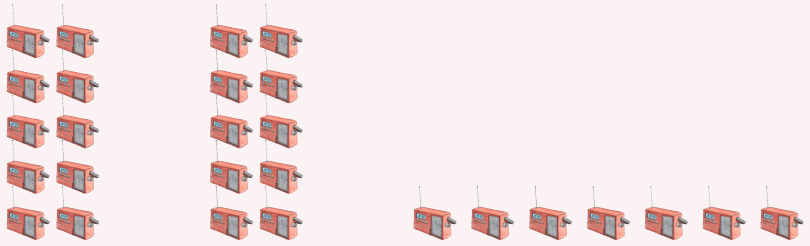
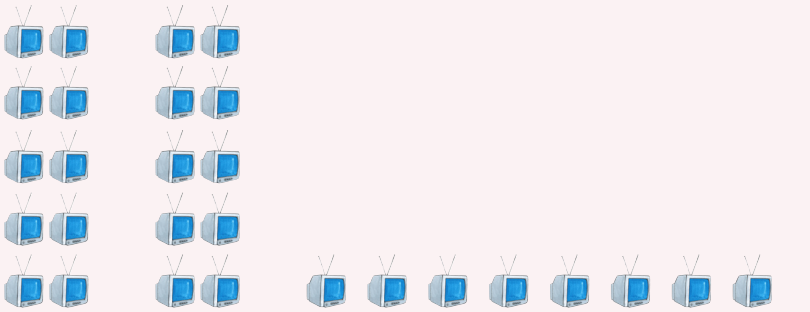
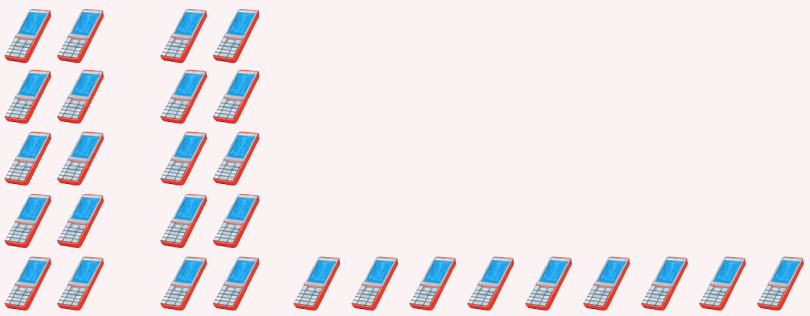
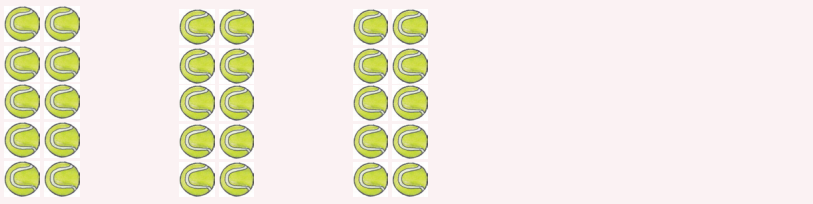
23 23 ....

24 24 ....

25 25 ....

Whole numbers from 26 up to 30

Activity 1. Count objects in each box and tell the number.

	26
	27
	28
	29
	30

Activity 2. Read and write the following numbers .

26 26 ....

27 27 ....

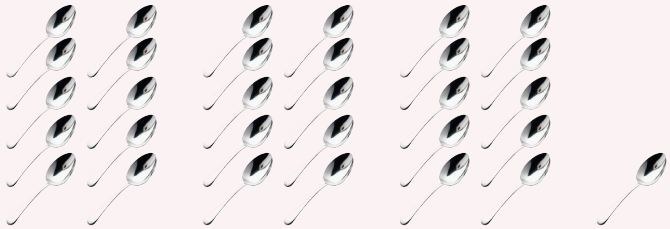
28 28 ....

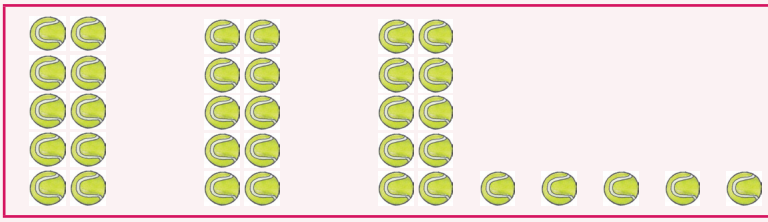
29 29 ....

30 30 ....

Whole numbers from 31 up to 35

Activity 1. Count objects in each box and tell the number.

	31
	32
	33
	34

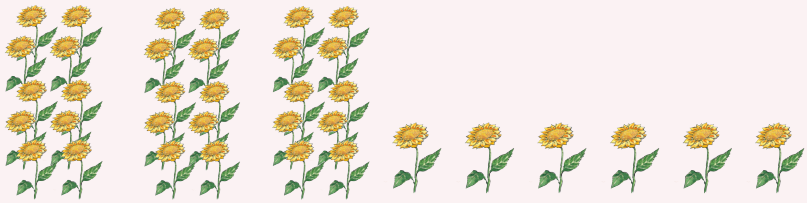
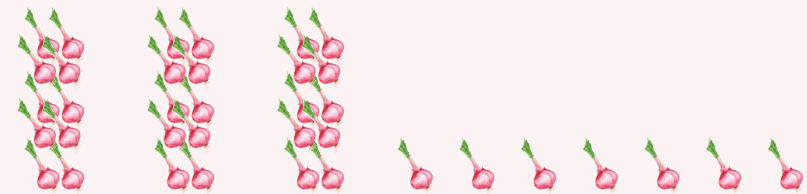
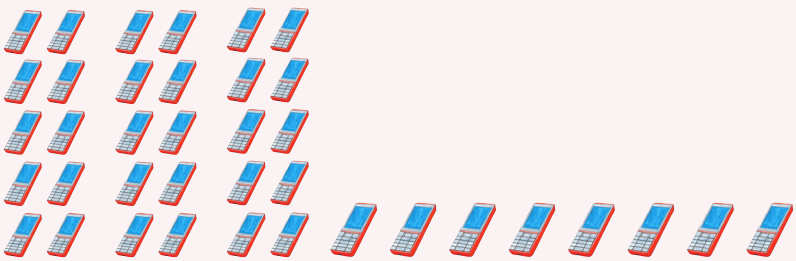
	35

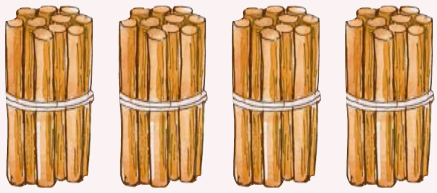
Activity 2. Read and write the following numbers.

31	31	....	....	....	....	....	....	....	....	....
32	32	....	....	....	....	....	....	....	....	....
33	33	....	....	....	....	....	....	....	....	....
34	34	....	....	....	....	....	....	....	....	....
35	35	....	....	....	....	....	....	....	....	....

Whole numbers from 36 up to 40

Activity 1. Count objects in each box and tell the number.

	36
	37
	38

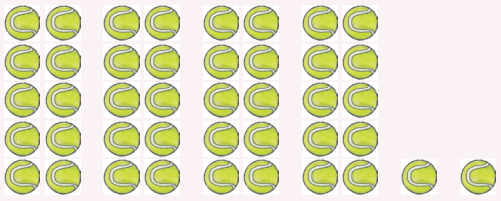
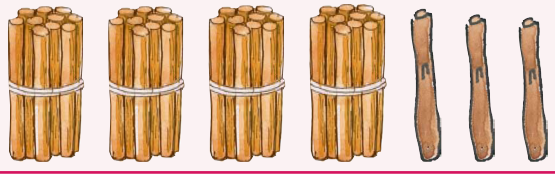
	39
	40

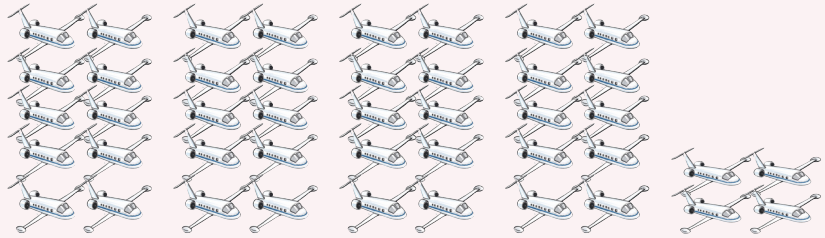
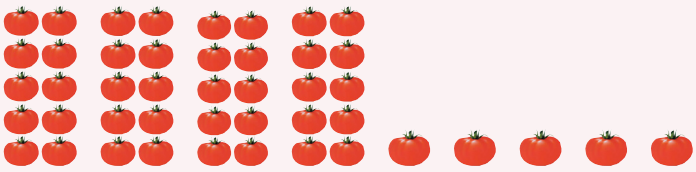
Activity 2. Read and write the following numbers

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

Whole numbers from 41 up to 45

Activity 1. Count the items in each box and tell the number

	41
	42
	43

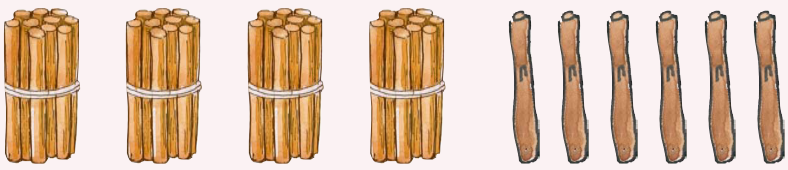
	44
	45

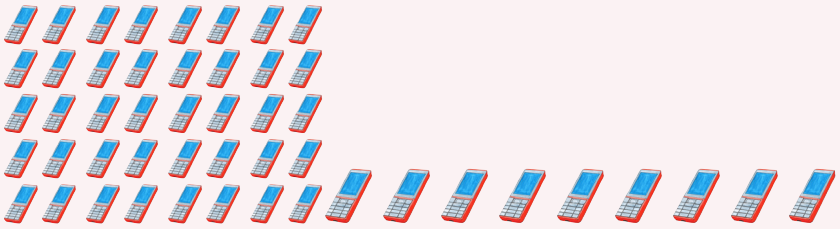
Activity 2. Read and write the following numbers.

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

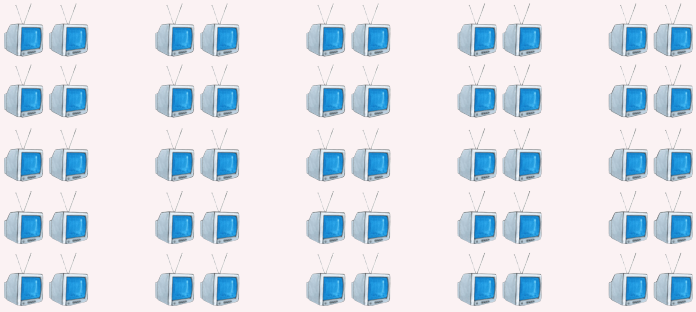
Whole numbers from 46 up to 50

Activity 1. Count objects in each box and tell the number.

	46
	47
	48



49



50

Activity 2. Read and write the following numbers.

46 46 ....

47 47 ....

48 48 ....

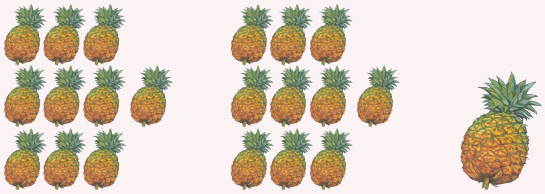
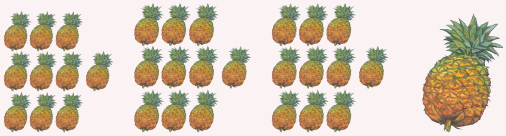
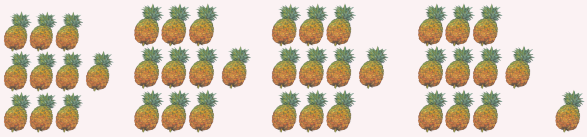
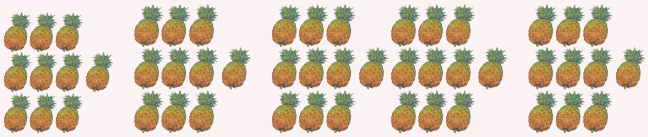
49 49 ....

50 50 ....

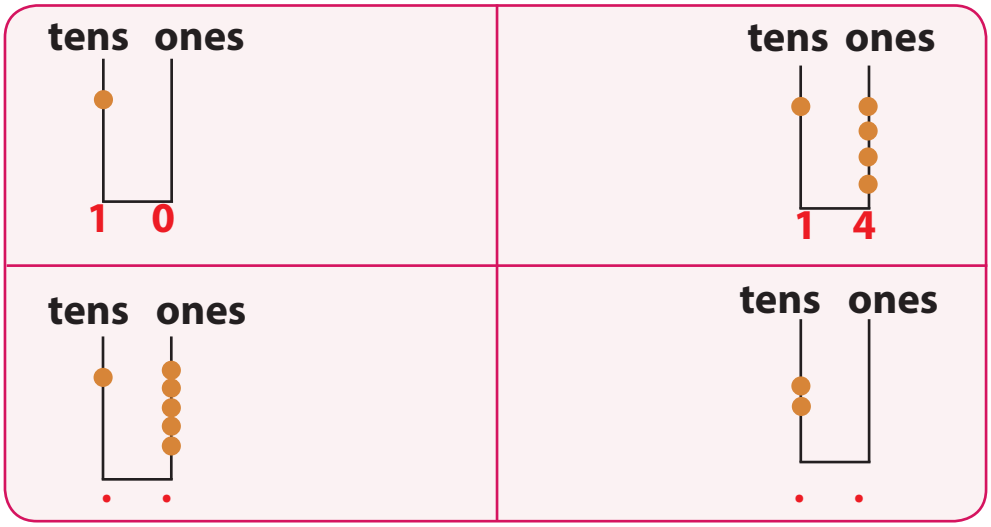
Whole numbers from 0 up to 50

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

Activity 1. Count, tell the number of tens and remaining Pineapples.

 10 10 1	2 Tens 1 pineapple is remaining
 10 10 10 1	..... Tens ..... Pineapple is remaining
 10 10 10 10 1	..... Tens ..... Pineapple is remaining
 10 10 10 10 10	..... Tens ..... Pineapple is remaining

Activity 2.Count and tell the number of beads .



Activity 3. Look at the example below and write in the correct numbers.

40	
Tens	Ones
4	0

33	
Tens	Ones
.	3

27	
Tens	Ones
2	.

50	
Tens	Ones
.	.

Activity 4. Look at the example below and write in the blanks with the correct numbers.

34	
Tens	Ones
3	4

...8	
Tens	Ones
4	8

2...	
Tens	Ones
2	9

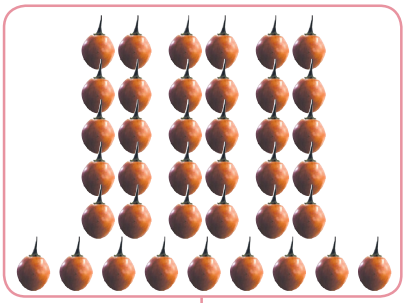
...	
Tens	Ones
3	5

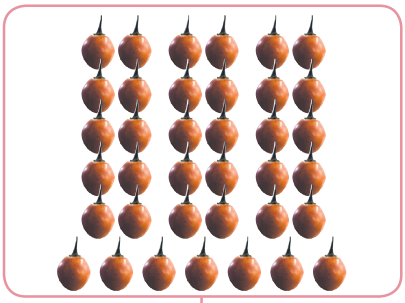
Activity 5. Fill in the blanks with the correct number.

46=4 tens 6 ones
32=...tens ...ones
40=...tens ...ones

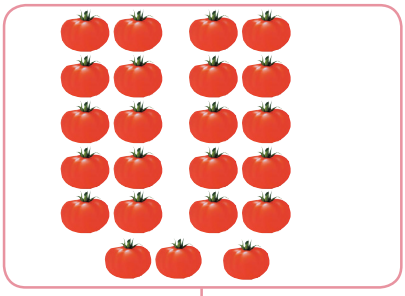
50=...tens
25=2tens ...ones
49=...tens 9ones

Count and compare numbers using the correct symbol: <, > or =.

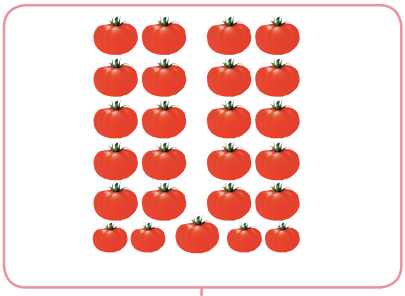




37



23



25

Follow the examples below properly and compare the numbers using : <, >, =

35	<	36
48	>	42
29	=	29

37		23
31		47
23		23

24		34
50		46
45		31

24		34
50		46
45		31

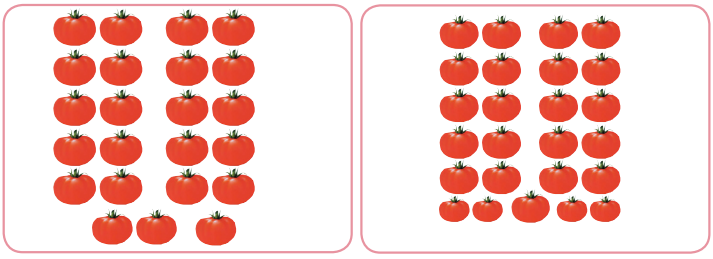
Arrange numbers starting from the smallest to biggest number.

39	47	50	21
_____	_____	_____	_____
38	24	42	35
_____	_____	_____	_____

Arrange numbers starting from the biggest to smallest number.

32	29	31	46	24
_____	_____	_____	_____	_____
26	38	43	25	4
_____	_____	_____	_____	_____

Look at the example below and add correctly.



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
	.	.

Add the following numbers

28 + 1 = ☐

22 + 17 = ☐

30 = 27 + ☐

8 + 14 = ☐

33 + 15 = ☐

☐ + 15 = 25

14 + 10 = ☐

17 + ☐ = 22

25 + 24 = ☐

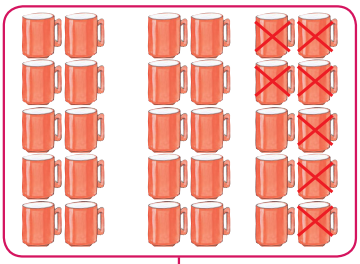
Do the following word problems

Muhumuza harvestS 32 pawpaws. Rugero harvestS 12 pawpaws.
The number of pawpaw they harvest altogether is ☐ .

Kayitesi buys 40 notebooks to Kayisire and she buys 10 notebooks to Kariza.

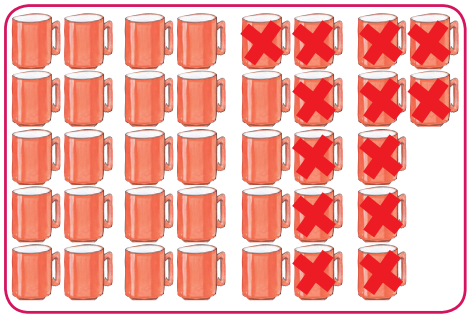
Kayitesi buys ☐ notebooks altogether

Count and tell the remaining number of objects.



☐

Look at the example below and subtract correctly.



37 - 13 = 24

	Tens	Ones
	3	7
-	1	3
	2	4

	Tens	b
	4	7
-	2	3
	.	.

	Tens	Ones
	2	5
-	2	2
	.	.

	Tens	Ones
	4	6
-	2	2
	.	.

	Tens	Ones
	4	0
-	2	0
	.	.

Subtract the following numbers.

28 - 2 = ☐
29 - 17 = ☐
☐ - 10 = 14

37 - 10 = ☐
48 - 17 = ☐
47 - ☐ = 34

49 - 4 = ☐
38 - ☐ = 28
45 = ☐ - 5

Do the following word problems

Gakuru and Gato planted 34 trees and 24 trees have grown well. The number of tree which have not grown well is .

Lazaro buys 42 Chickens for selling. He goes to the market and only sells 30 chickens.

The number of not sold chickens is .

WHOLE NUMBERS FROM 0 UP TO 100

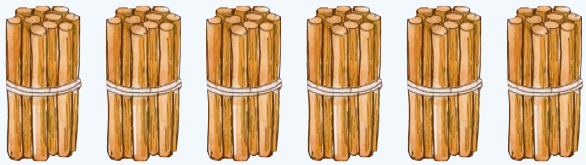
Activity A

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

Whole numbers from 51 up to 60

Activity B.

1. Count and tell the number of sticks.

	60

2. Write the following numbers.

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

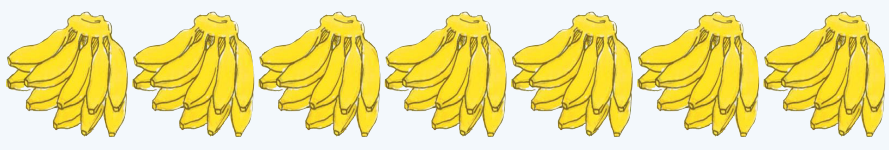
3. Fill in the blanks with the missing numbers

51	**52**	**53**	**54**	.	.	**57**	.	.	**60**

Whole numbers from 61 up to 70

Activity C.

1. Count and tell the total number of bananas.

	70

2. Read and write the following numbers

61	61	....	....	....	....	....	....	.....	....	....
62	62	....	....	....	....	....	....	.....	....	....
68	68	....	....	....	....	....	....	.....	....	....
69	69	....	....	....	....	....	....	.....	....	....
70	70	....	....	....	....	....	....	.....	....	....

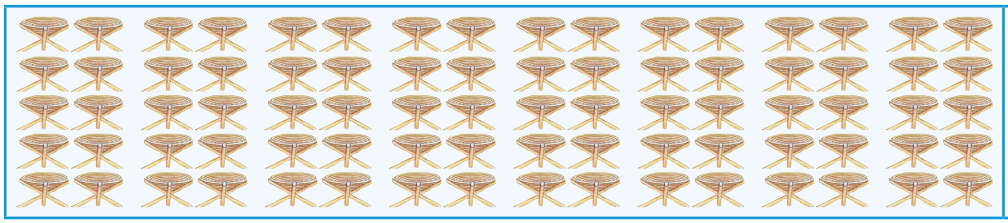
3. Fill in the blanks with the missing numbers.

61	62	.	.	.	.	.	68	69	60

Whole numbers from 71 up to 80

Activity D

1. Count and tell the total number of objects.



80

2. Read and write the following numbers.

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

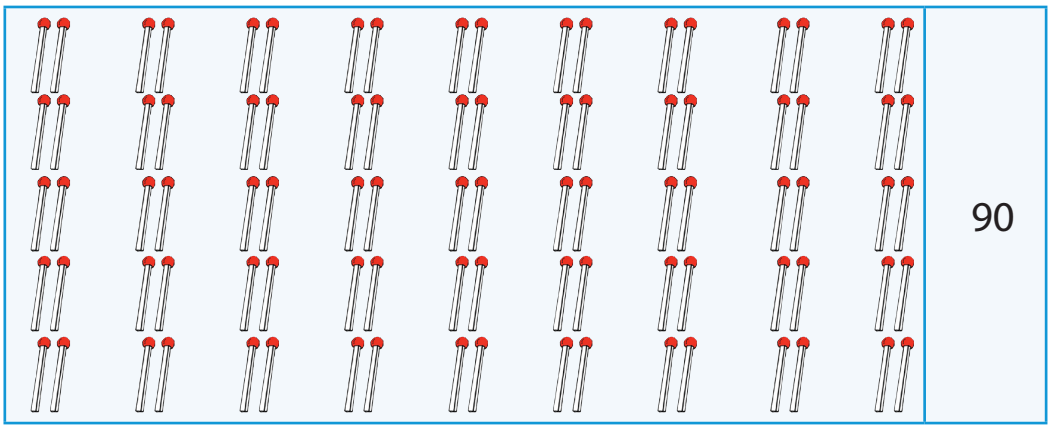
3. Fill in the blanks with the missing numbers.

71	.	.	.	.	.	.	.	79	80

Whole numbers from 81 up to 90

Activity E

1. Count and tell the total number of match sticks.



2. Read and write the following numbers.

81 81 ....

89 89 ....

3. Fill in the blanks with the missing numbers.

81	.	.	.	.	.	.	.	89

Whole numbers from 91 up to 99

Activity F

1. Read and write the following numbers.

81 81 ....

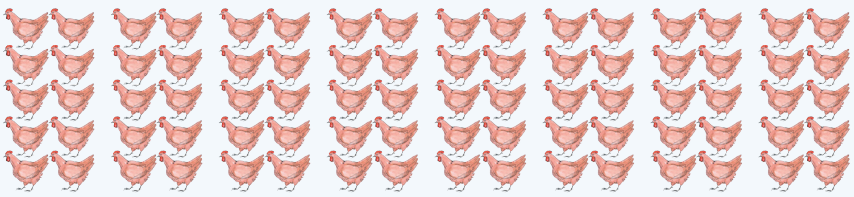
89 89 ....

2. Fill in the blanks with the missing numbers.

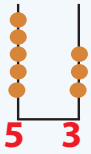
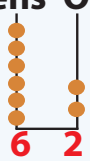
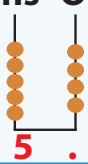
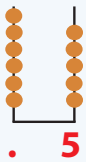
91	.	.	.	.	.	.	.	99

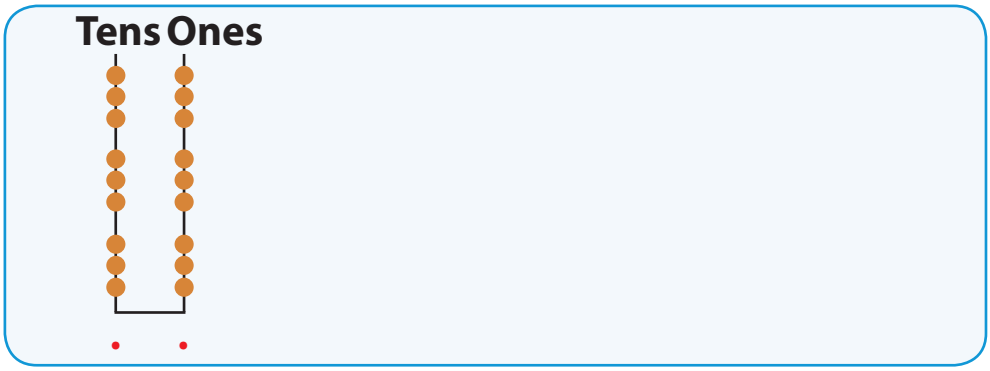
Activity G

1. Count the objects below and tell the number in Tens.

	6 Tens
	... Tens
	... Tens
	... Tens

2. Look at the pictures below count and tell the number of beads.

Tens Ones  5 3	Tens Ones  6 2
Tens Ones  5 .	Tens Ones  . 5



3. Look at the example below and fill in the blanks with the missing numbers.

72		63		87		99	
Tens	Ones	Tens	Ones	Tens	Ones	Tens	Ones
7	2	.	3	8	.	.	.

4. Look at the example below and fill in the blanks with the missing digits.

57		...8		6...		...	
Tens	Ones	Tens	Ones	Tens	Ones	Tens	Ones
5	7	8	8	6	9	7	5

5. Look at the example and fill in the blanks with the missing digits.

76 = 7 tens 6 ones
82 = ...tens ...ones
90 = ...tens ...ones

58 = ...tens ...ones
55 = 5 tens ...ones
69 = ...tens ...ones

6. Look at the example and compare numbers with <, > or =

61	=	61	58		58	96		99	77		83
81	<	87	54		45	74		88	50		66
95	>	91	65		65	85		71			

7. Arrange from the smallest to biggest number.

89	**87**	**80**	**81**
_____	_____	_____	_____
98	**64**	**52**	**75**
_____	_____	_____	_____

8. Arrange from the biggest to smallest number.

99	**59**	**79**	**89**	**69**
_____	_____	_____	_____	_____
66	**58**	**79**	**95**	**85**
_____	_____	_____	_____	_____

A table of whole numbers from 1 up to100.

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

Activity G

1. Follow the examples below and add the following.

	Tens	Ones
	6	2
+	1	3
	7	5

	Tens	Ones
	7	3
+	2	1
	9	4

	Tens	Ones
	6	4
+	3	2
	.	.

	Tens	Ones
	3	5
+	2	2
	.	.

	Tens	Ones
	7	7
+	2	0
	.	.

	Tens	Ones
	8	5
+	1	2
	.	.

2. Do the following addition of numbers

88 + 1= ☐	6 + 52= ☐	14 + 50= ☐
32 + 47= ☐	63 + 35= ☐	87 + ☐ =90
60 = 47 + ☐	☐ +15=55	34+35= ☐

3. Do the following word problems

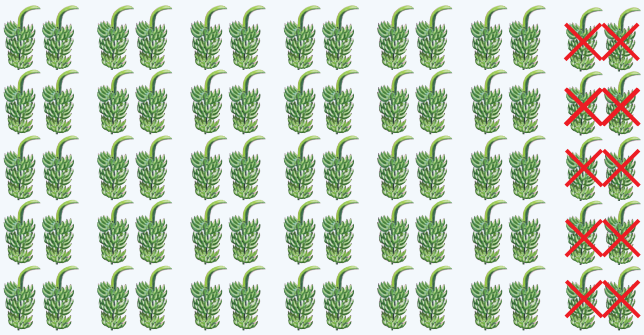
Janet planted 23 flowers on Tuesday, on Wednesday she planted 30 flowers.

Janet planted ☐ flowers altogether.

Gatete buys 41 apples and Gatesi buys 34 apples.

Gatete and Gatesi buy ☐ apples altogether.

4. Count and tell the number of the remaining items.

	60
	.

5. Look at the examples and subtract the numbers.

	Tens	Ones
	7	6
-	2	4
	5	2

	Tens	Ones
	8	5
-	4	1
	4	4

	Tens	Ones
	8	4
-	2	4
	.	.

	Tens	Ones
	6	7
-	2	3
	.	.

	Tens	Ones
	9	8
-	2	3
	.	.

	Tens	Ones
	9	8
-	4	7
	.	.

6. Do the following subtraction of numbers.

80 - 10 = ☐

59 - 17= ☐

90 - ☐ = 70

67 - 15= ☐

68 - 57= ☐

☐ - 10 = 40

89 - 40 = ☐

38 - ☐ =28

5 = ☐ - 85

7. Do the following word problems

In the avocado tree there are 80 avocados.
Gahigi harvests 30 ripe avocados.
The number of the remaining avocados in the tree is ☐.

My mum went to the hospital and was given 63 tablets.
She is now used 33 tablets.
The number of the remaining tablets is ☐.

FRACTIONS $\frac{1}{2}$ AND $\frac{1}{4}$

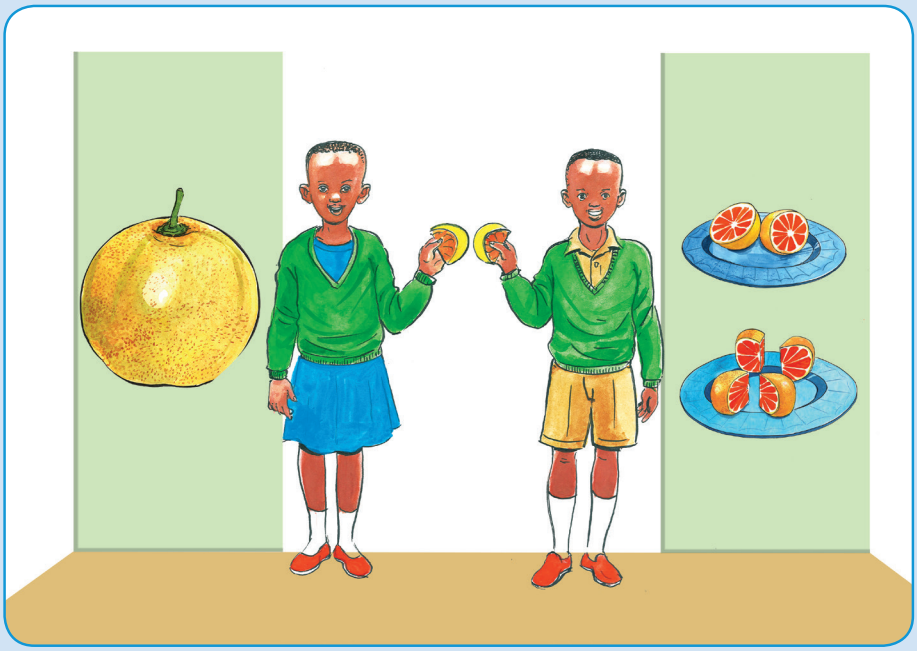
Activity A

1. Look at the picture below.

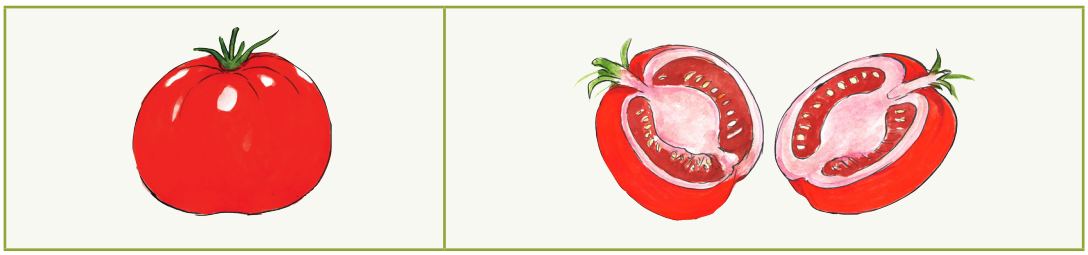
2. Look at the picture below.

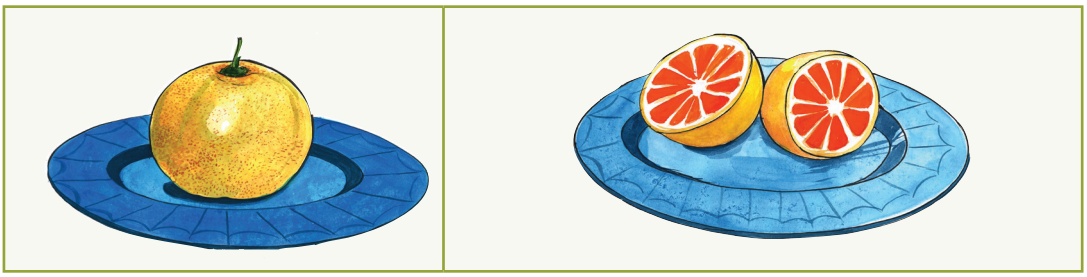
3. What do you see in the picture?

4. How many oranges do you see in the picture?

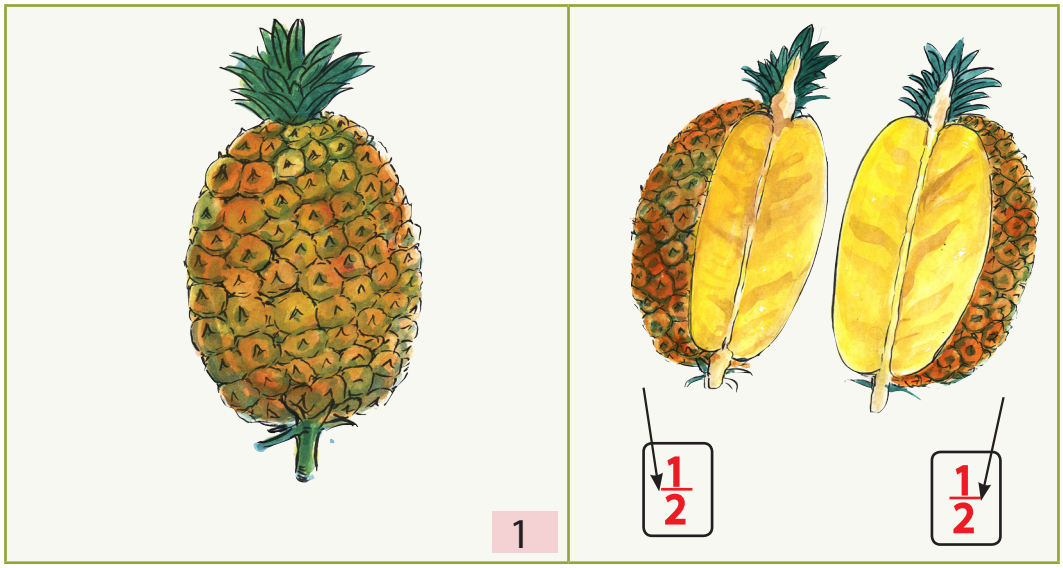


Observe the pictures below, count and tell the number of equal parts

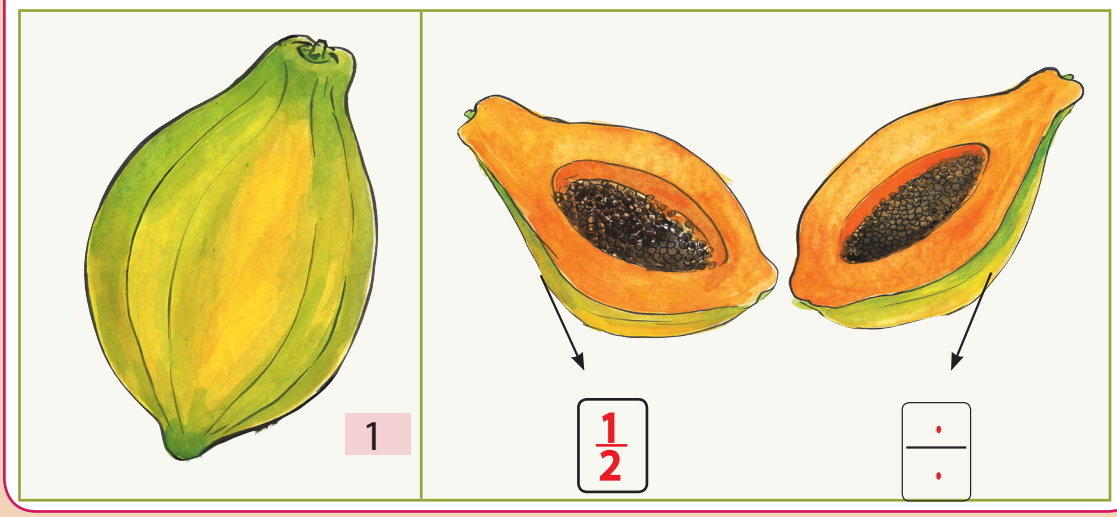




Look at the pictures below, count and read the fraction $\frac{1}{2}$



Look at pictures below, count and fill in the blanks with the fraction $\frac{1}{2}$



Read and write the fraction $\frac{1}{2}$ correctly.

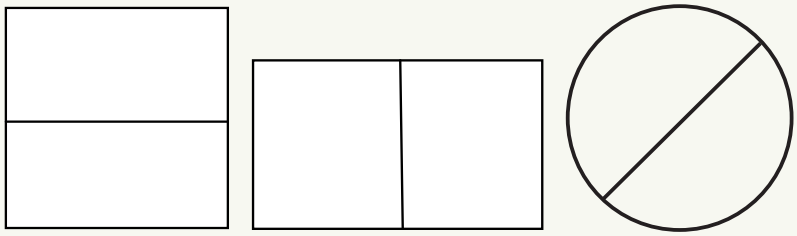
$\frac{1}{2}$ $\frac{1}{2}$ ....

Activity B

Parts of the fraction $\frac{1}{2}$

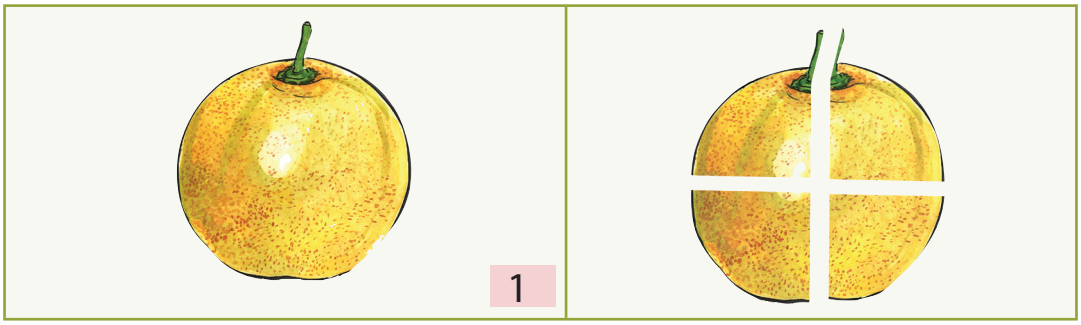
$\frac{1}{2}$ — 1: Numerator; —: Fraction bar; 2: Denominator

Shade in color a part showing the fraction $\frac{1}{2}$

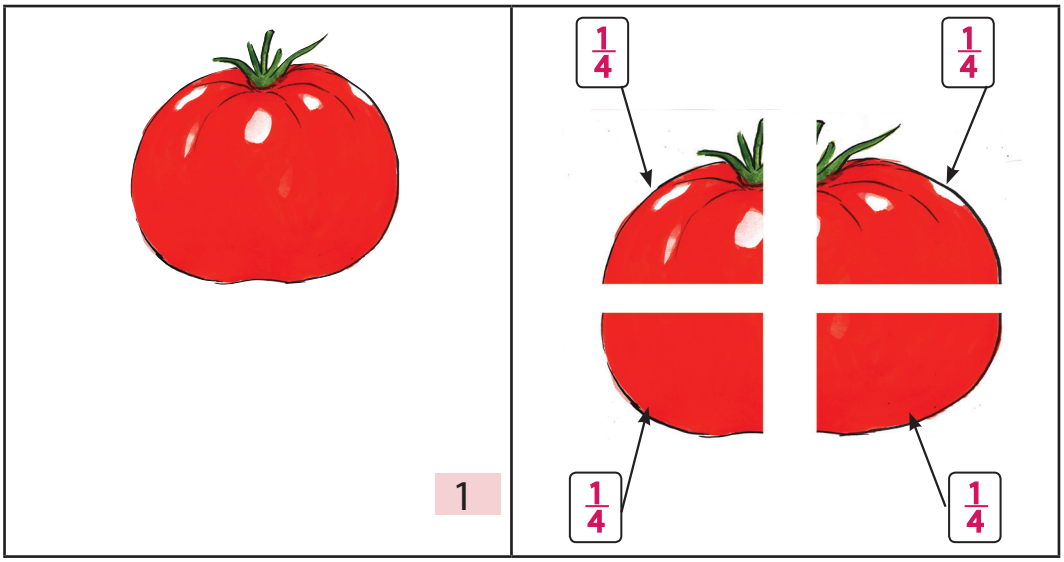


Count and tell the number of equal parts to make a whole in the picture below.

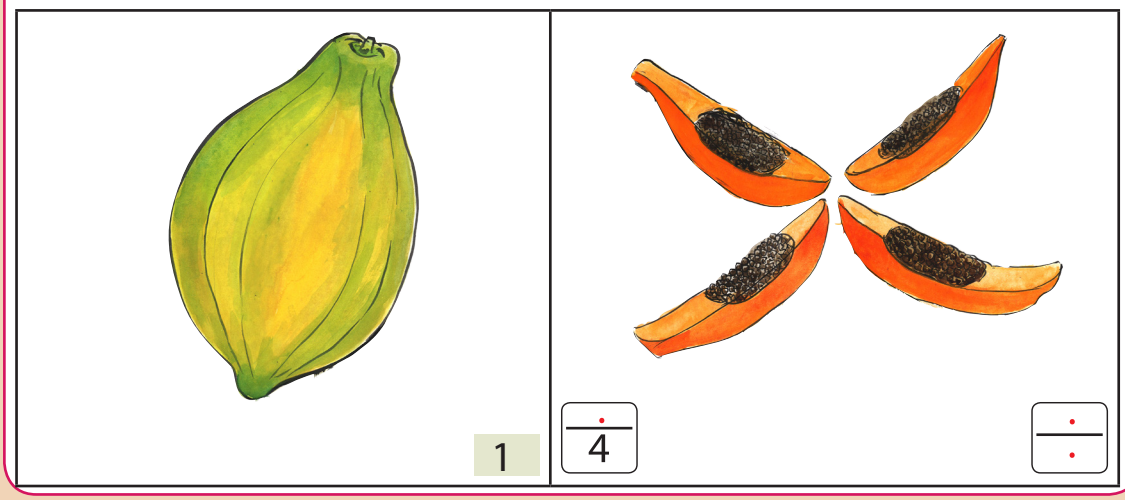
1



Look at the pictures below, count and read the fraction $\frac{1}{4}$



Look at the pictures below count and fill in the blanks with the fraction $\frac{1}{4}$



Read and write the fraction $\frac{1}{4}$ correctly.

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

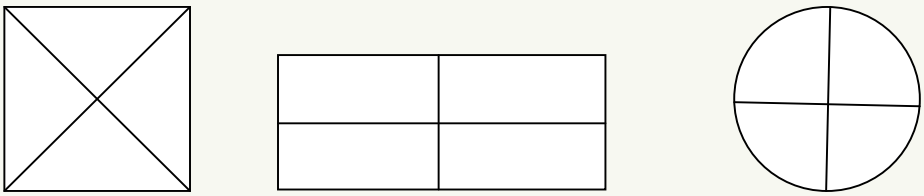
Activity C

Parts of the fraction $\frac{1}{4}$

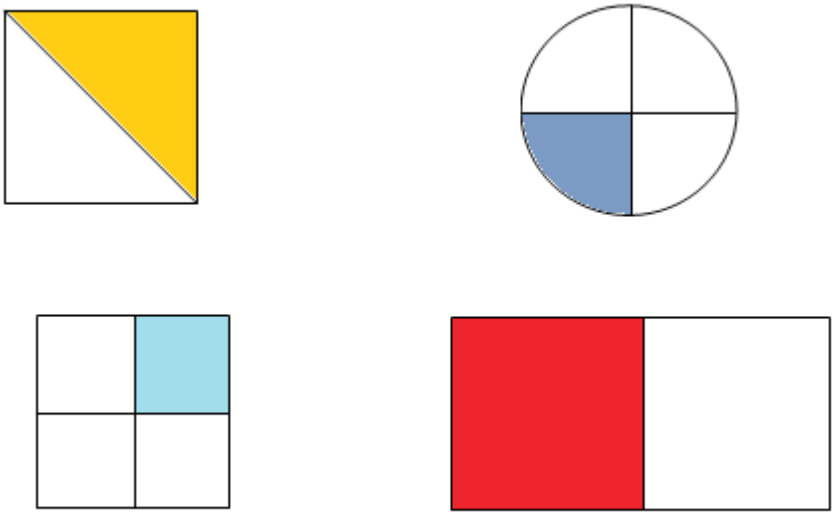
$\frac{1}{4}$ → Numerator

$\frac{1}{4}$ → Denominator

Shade in color a part showing the fraction $\frac{1}{4}$



Find the fraction of the shaded part of a whole



NUMBER PATTERNS

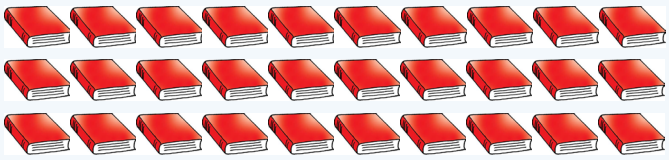
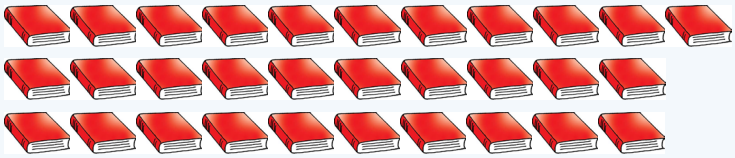
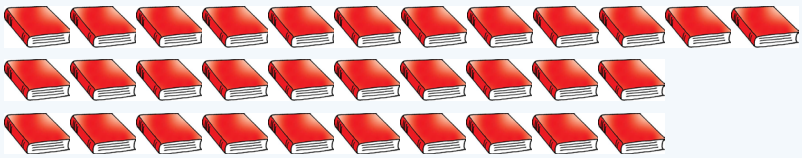
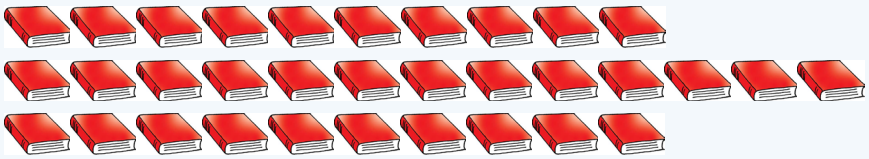
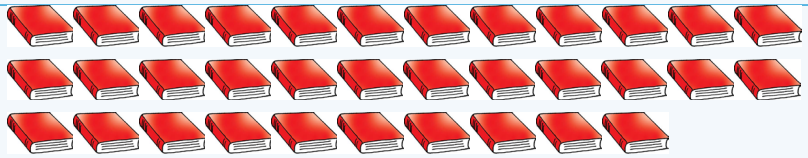
Activity A

1. Look at the picture below.

2. What do you see in the picture?

3. How many avocadoes do you see on each raw in the picture?

4. Count and fill in the blanks with the missing number.

	30
	.
	.
	.
	34

5. Look at the given example and fill in the blanks with the missing numbers.

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

6. Make addition and 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	.	.		.	.	.	.	.	.	.

+...

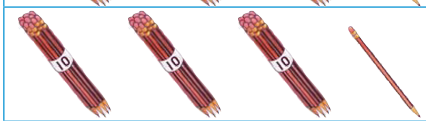
20	25	30	35	40	45	50	55	60	65	70
25	30	35	40	45	50	55	60	65	70	75

Activity B

1. Look at the 2 consecutive numbers
2. Find the number pattern or the common difference
3. 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

4. Look at the pictures below, count and fill in the missing numbers

	33
	32
	.

.

5. Look at the examples below and fill in the missing numbers.

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	…	…

6. Make subtraction and fill in the missing numbers.

-10

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

-3

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

–…

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

-4

28	24	.	16	12	8	.
24	.	16	12	.	.	0

7. Find the number pattern and fill in 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

MEASURING LENGTHS LESS THAN OR EQUAL TO 10 m

Activity A

1. Look at the picture below.

2. What do you see in the picture below?

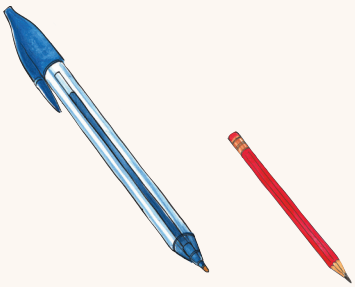
3. What are the children doing in the picture?

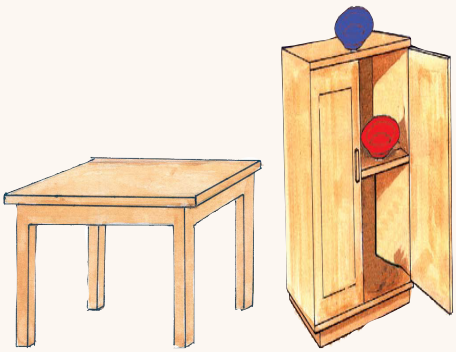
4. Look at the pictures and tell the shorter or taller picture.

	The tree is **taller** The maize is **shorter**

	The flat is taller **The house is .....**
	Mum is ..... **Karisa is shorter**

5. Look at the pictures below and fill in the blanks with" taller" or "shorter

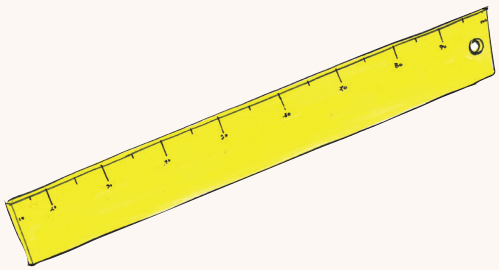
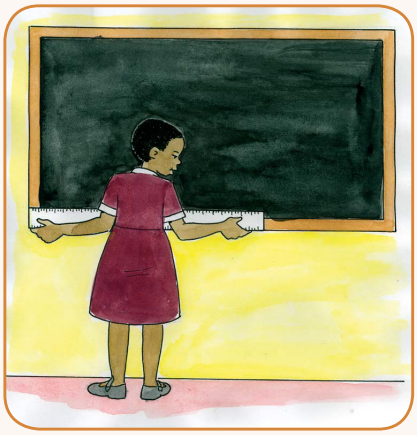
	A pencil is ..... A blue pen is .....

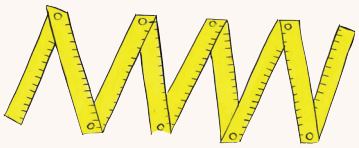
	A flask is ..... A cup is .....
	A table is ..... A cupboard is .....

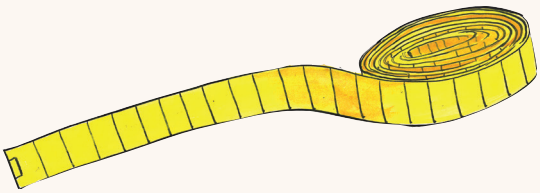
Activity B

1. Look at the different tools of measuring lengths.

2. Name each tool.

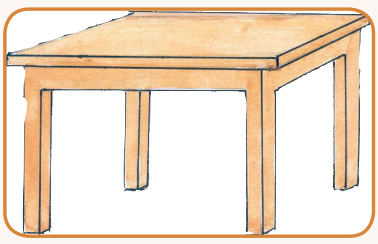
	



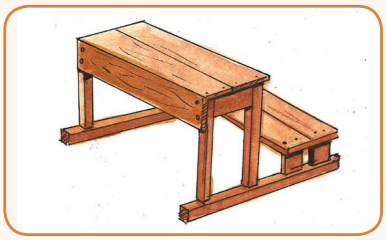
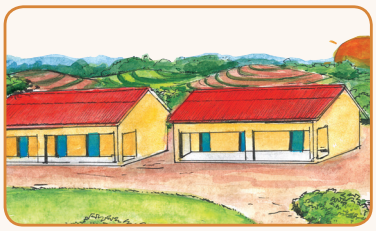
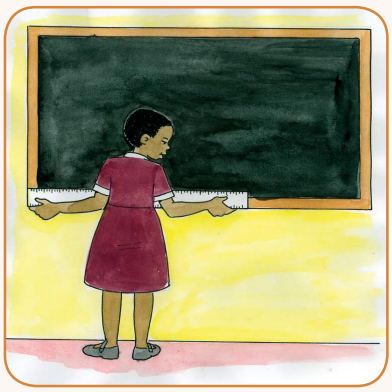
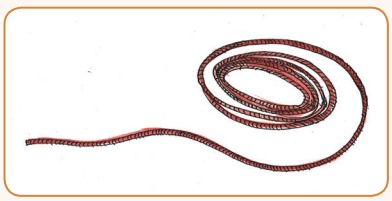


3.a. Use a meter ruler to measure the length of each object in meters.

b.Tell the length of each object in metres.



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

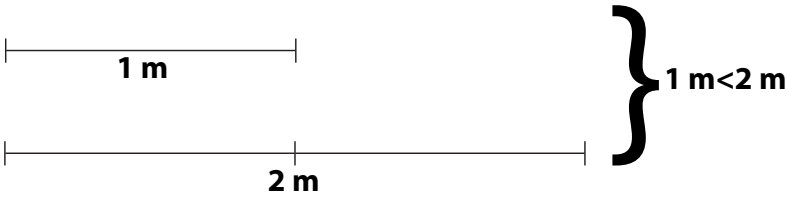
4. Look at the examples below in red color , read and write lengths in meters.

Read	Write
1 meter	**1 m**
2 meters	**2 m**
3 meters	**3 ...**
4 meters	**... m**

5 meters	**... m**
6 meters	**6 m**
7	**7 m**
8 meters	**8 m**
9	**9 m**
10 meters	**... m**

5. Fill in the box with the correct symbol: >, < or =

Example:



1 m < 2 m	**4 m > 1 m**

4 m ☐ 8 m	7 m ☐ 3 m	6 m ☐ 9 m
8 m ☐ 7m	1 m ☐ 4 m	10 m ☐ 6 m
10 m ☐ 4m	6 m ☐ 6 m	5 m ☐ 9 m

6. Look at the examples below and add lengths in meters.

3 m+3 m= 6m	4 m+5 m= 9 m

1 m+1 m= ... m
1 m+2 m= ... m
3 m+4 m= ... m
5 m+5 m= ... m
2 m+3 m= ... m
2 m+4 m= ... m
1 m+ 5m= ... m
9 m+ 1m= ... m

8 m+2 m= ... m
3 m+5 m= ... m
5 m+4 m= ... m
7 m+3 m= ... m
2 m+5m= ... m
6 m+3 m= ... m

Activity C

Do the following word problems.

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

2. Samson plants trees on a line of 6 m long. Simon plants trees on a line of 3 m long. Samson and Simon plant trees on---------- meters all together.

3. Abimana gives Kaneza a rope of 4 m long and he gives Kamariza a rope of 2 m long. Abimana gives to Kaneza and Kamariza a rope of ... meters.

Activity D

Follow the examples and subtract lengths in meters.

3 m - 1 m = 2 m	4 m - 3m = 1 m

4 m - 1 m= ... m

7 m - 2 m= ... m

5 m - 5 m= ... m

6 m - 3 m= ... m

8 m - 4 m= ... m

9 m - 1 m= ... m

5 m - 4 m= ... m

7 m - 3 m= ... m

4 m - 4 m= ... m

Activity E

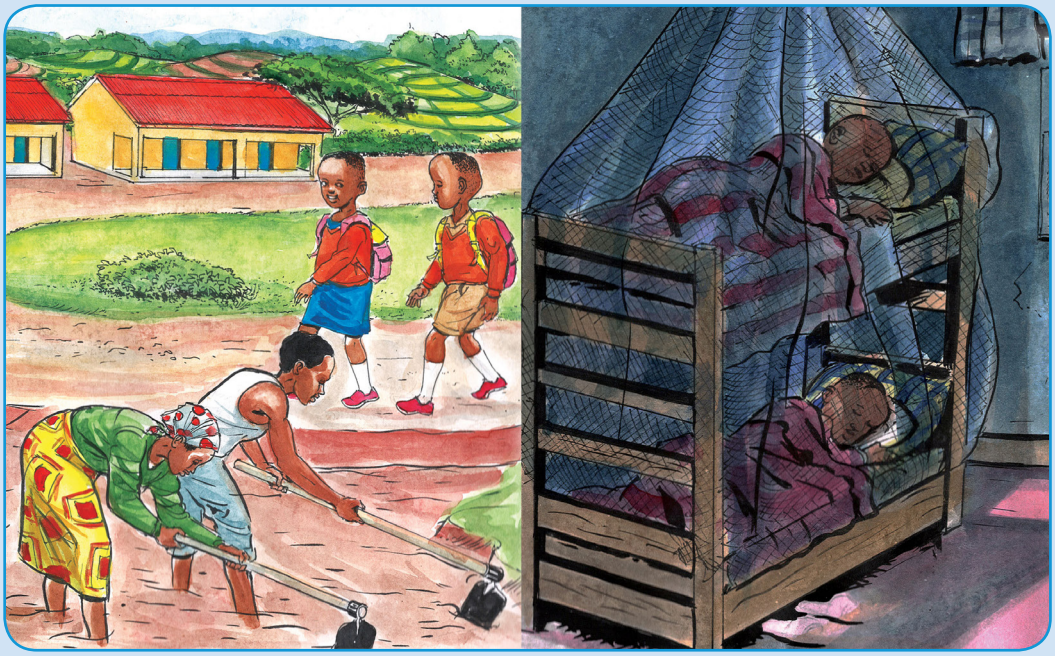
Do the following word problems.

1. At school, they request us to plant trees on a line of 5 meters long. We planted trees on a line of 3 meters long, how many meters remained for us to plant all trees?
2. A tractor needs to complete 10 m when constructing a road. A tractor covered 9 m of road. How many meters remained to complete the job?
3. John planted trees on the road of 9 m long. Only trees planted on 6 m long grew well. The non-grown trees are planted on---------- meters?

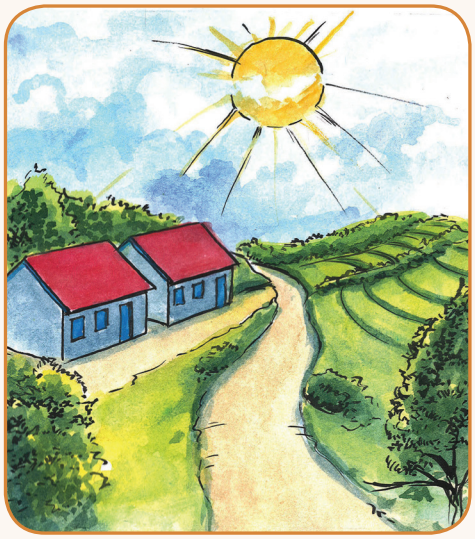
MAIN PARTS OF THE DAY AND DAYS OF THE WEEK

Activity (A)

1. Look at the picture below carefully.
2. What do you see in the picture?
3. What is everyone doing in the picture?



4. Look at the pictures below. What do you see?



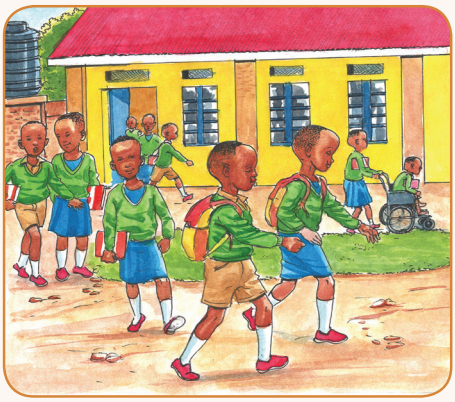
5. Look at the pictures below, read the story and explain what is happening.

Morning Hours

Mary is going to school
John is brushing his teeth

12 O'clock

John and Mary come back from school

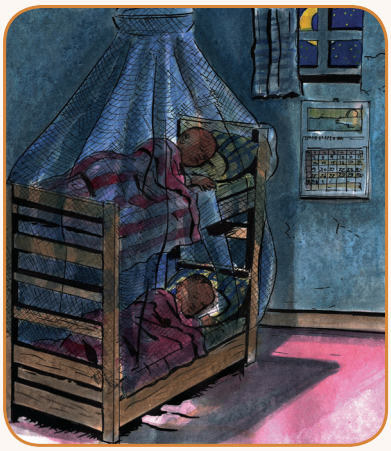


Evening hours

John and Mary are revising their lessons. Their father is helping them.

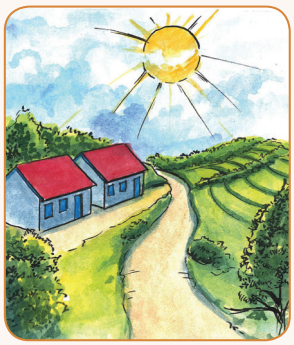
During night

John and Mary are sleeping.



Activity B

Match the correct picture with the right sentence.

	It is night
	12 O'clock the sun is shining or sunshine
	In the morning the sun is starting to rise or sunrises
	In the evening the sun disappears or sunsets

Activity C

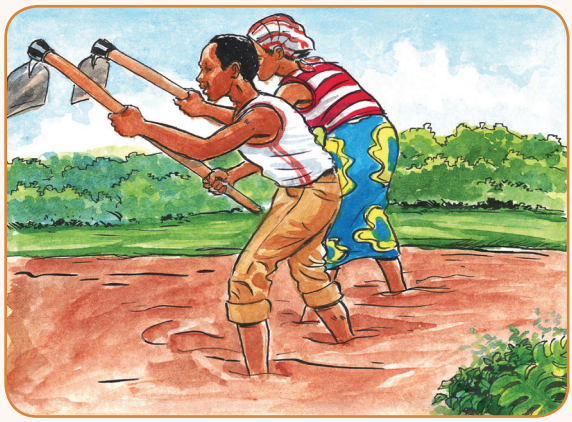
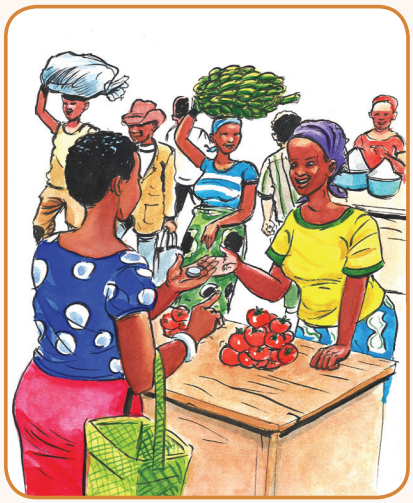
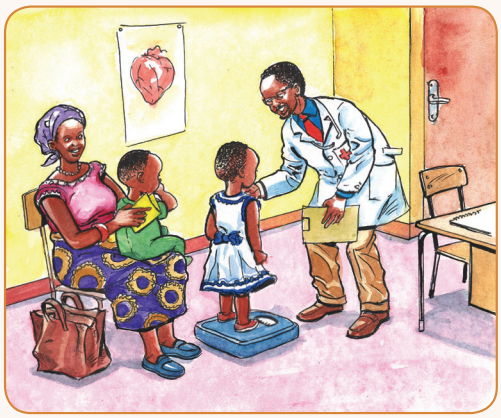
Answer the following questions.

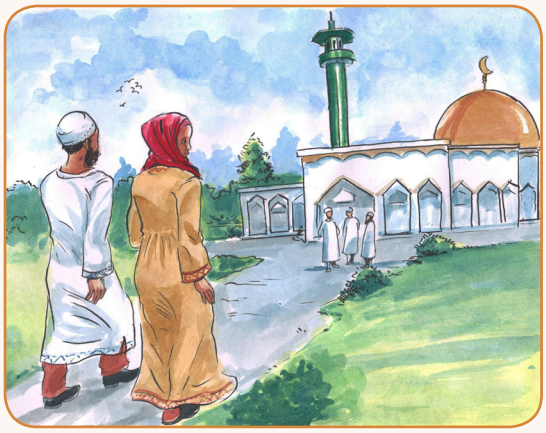
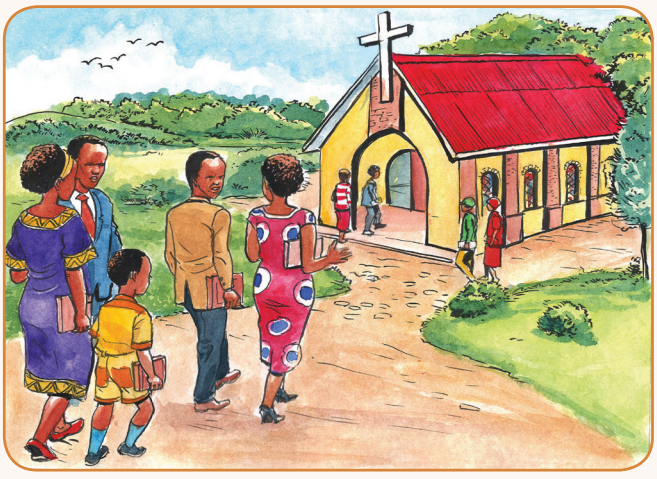
1. What do you do in the morning? **2. What do you do at 12 O'clock?** **3. What do you do in the evening?** **4. What do you do at night?**	What are characteristics of following parts of the day: 1. Morning hours 2. 12 O'clock 3. Evening hours 4. Night hours

Activity D

1. Look at the pictures below and talk about the activities of each day of the week in the table.

Monday	

Tuesday	
Wednesday	
Thursday	

Friday	
Saturday	
Sunday	

2. Talk about your everyday activities

Choose 3 activities among the following:

- To play
- To read a storybook
- To clean dishes
- To fetch water
- To look after cattle
- To watch television
- To wash my body
- To clean clothes
- To revise my lessons
- To pray

3. Mention 5 of your main daily activities from Monday to Sunday.

RWANDAN CURRENCY FROM 1 Frw UP TO 100 Frw

Activity A

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

Look at the Rwandan Coins below and tell their values

Rwandan Coins	The Coin's Value
1 Frw	1 Rwandan Franc
5 Frw	5 Rwandan Francs
10 Frw	10 Rwandan Francs
20 Frw	20 Rwandan Francs
50 Frw	‘ 50 Rwandan Francs
100 Frw	100 Rwandan Francs

Look at the Rwandan Coins and say their features.

Rwandan Coins	Features
	– Silver color – branch of wheat – Coat of arm
	– Copper color – Branch of coffee – Coat of arm
	– Copper color – Banana tree – Coat of arm
	– Silver color – Branch of tea – Coat of arm
	– Silver color – Maize – Coat of arm
	– Silver and copper colors – Maize – Coat of arm

Activity B

Look at the coins in the table below.

a. Exchanging Rwandan Coins

1 Coin of 5 Frw	5 coins of 1 Frw
1 Coin of 10 Frw	10 coins of 1 Frw
1 Coin of 10 Frw	2 coins of 5 Frw
1 Coin of 20 Frw	4 coins of 5 Frw
1 Coin of 20 Frw	2 coins of 10 Frw

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

1 Coin of 50 Frw

10 coins of 5 Frw

1 Coin of 50 Frw

5 coins of 10 Frw

1 Coin of 50 Frw

2 coins of 20 Frw

1 coin of 10 Frw

1 Coin of 100 Frw

10 coins of 10 Frw

1 Coin of 100 Frw

5 coins of 20 Frw

1 Coin of 100 Frw

2 coins of 50 Frw

b.Look at the examples below and add Rwandan francs.

5 Frw + 5 Frw = 10 Frw

$$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$$

10 Frw + 10 Frw = 10 Frw

$$\begin{array}{r} 10 \\ +10 \\ \hline 20 \end{array}$$

1 Frw +1 Frw= ...

1 Frw +5 Frw= ...

15 Frw +5 Frw= ...

5 Frw +10 Frw= ...

20 Frw +5 Frw= ...

20Frw+10Frw= ...

50Frw+5 Frw= ...

10Frw+50Frw= ...

50Frw+50Frw= ...

20Frw +1 Frw= ...

20Frw+20Frw= ...

10Frw+ ... =20Frw

... +5 Frw= 10 Frw

50Frw =20Frw+ ...

100 Frw= 50Frw+ ...

c. Look at the examples below and subtract Rwandan francs

F10 - F5 = F5

$$\begin{array}{r} 10 \\ -\ 5 \\ \hline 5 \end{array}$$

F20 - F10 = F10

$$\begin{array}{r} 20 \\ -\ 10 \\ \hline 10 \end{array}$$

50 Frw-10 Frw = ...

50 Frw-20 Frw = ...

100 Frw-50 Frw= ...

100 Frw-10 Frw= ...

50 Frw- 5 Frw = ...

20 Frw- 5 Frw= ...

100 Frw-20 Frw= ...

40 Frw-10 Frw = ...

d. Do the following word problems.

Anitha has 2 coins of 20 Frw and 10 Frw

How much money does Anitha?

Mutesi has a 100 Frw and he buys a pencil at 50 Frw.

Mutesi remains with ... as change or balance.

Kofi has 100 Frw. He buys bananas at 20 Frw and biscuits at 50 Frw.

How much money does Kofi get as change or balance.

Uwimana has 100 Frw. She buys bananas at 20 Frw, biscuits at 50 Frw and a match box at 20 Frw.

How much money does Uwimana use for shopping?

How much money does Uwimana get as balance?

e. Look at the pictures below and write down the uses of money.

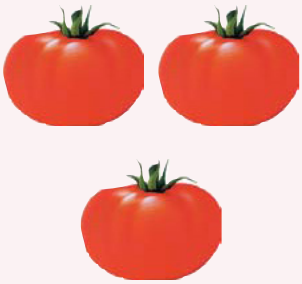
Karire buys.....

Mum is buying.....

Feza buys.....

Kabera buys.....

f. If you have 100 Frw, what items can you buy from the table below?

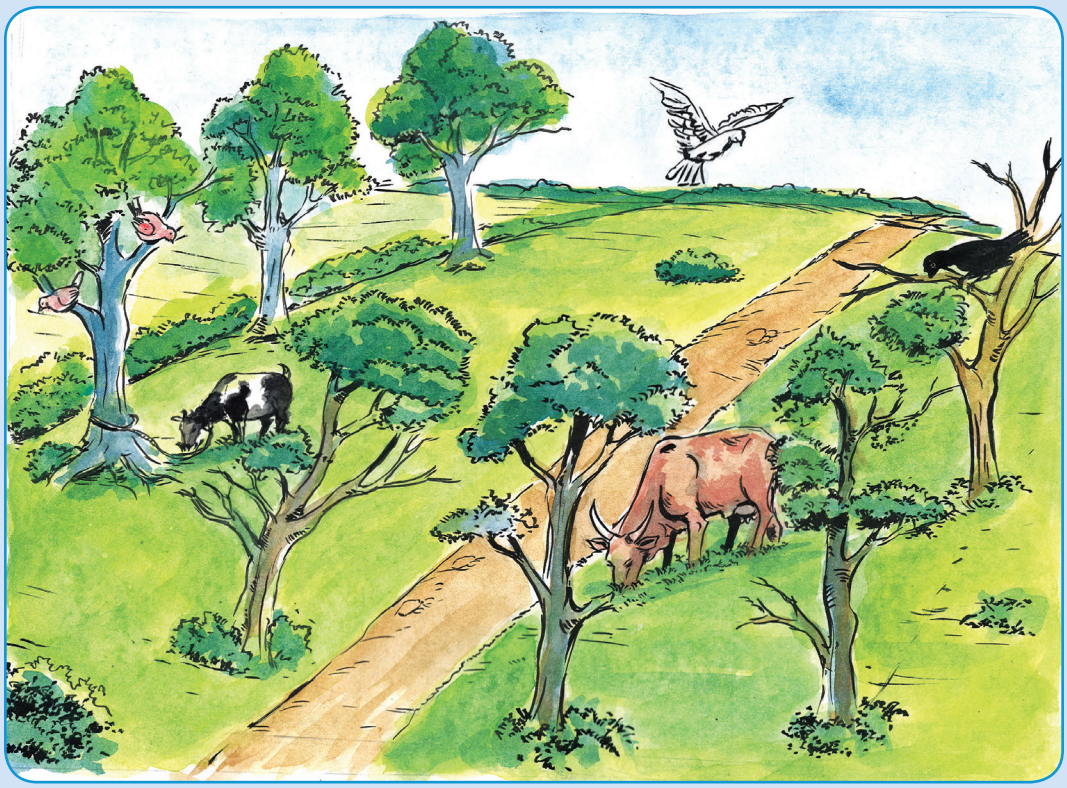
DIRECTIONS, LOCATION OF OBJECTS AND LINES

Activity A

1. Look at the pictures below.

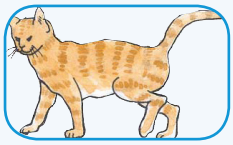
2. What do you see in the picture?

3. How many things do you see in the picture?

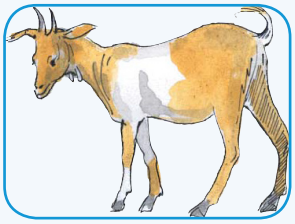


Activity B

Fill in the blanks with the correct word: in front of, between, behind



A cat is ... the goat

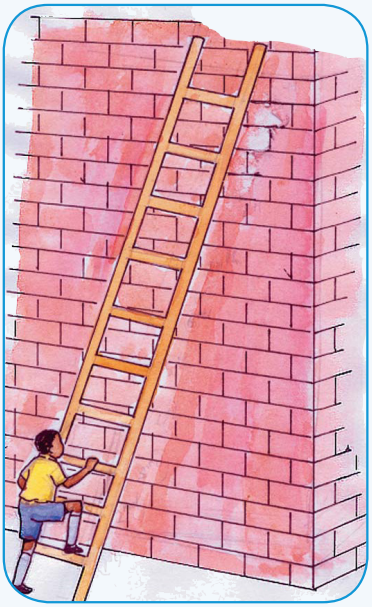


A goat ... the cat and cock

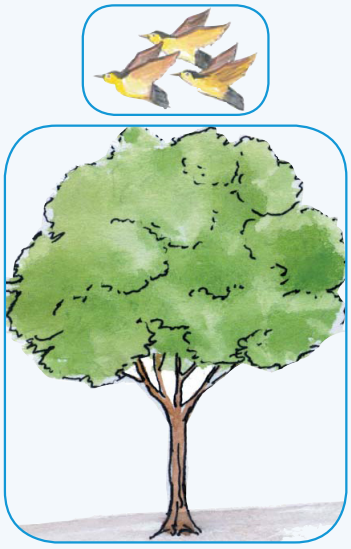
A cock is... the goat

Activity C

Look at the picture below and fill in the blanks with the correct word: on, above



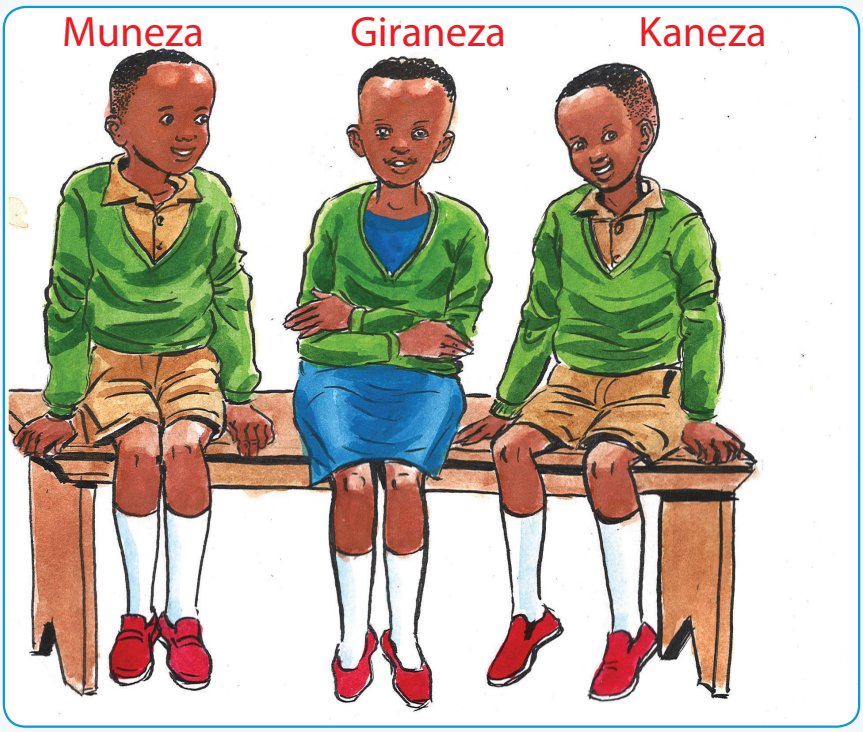
Kabarisa is ... the wall



Birds are ... the tree

Activity D

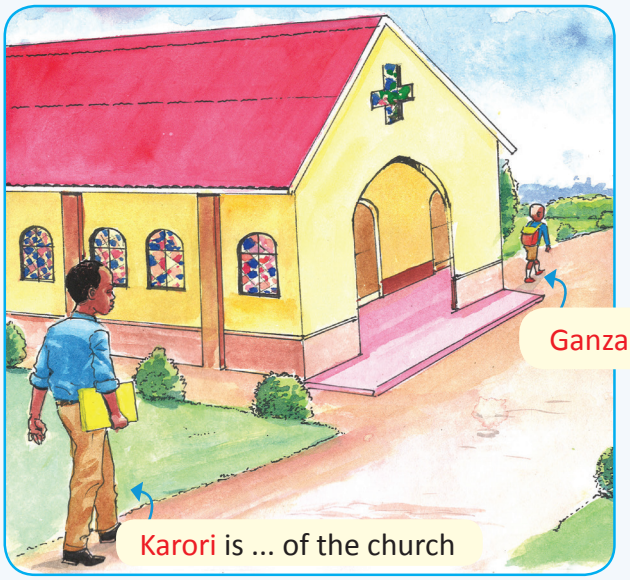
Look at the picture below, fill in the blanks with: left side, right side, between.



Muneza is on the ..... of Giraneza
Giraneza is ..... Kaneza and Muneza
Kaneza is on the of ..... Giraneza

Activity E

Look at the picture below and fill in the blanks with the correct word: on the left side; on the right side.

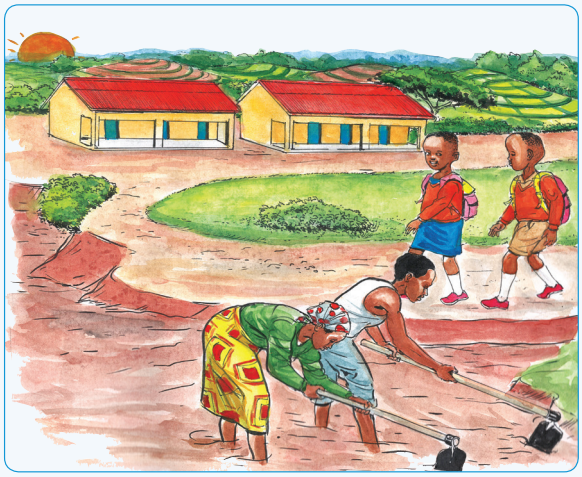


Ganza is ... of the church

Karori is ... of the church

Activity F

Look at the picture below, fill in the blanks with the correct word: beside, in, above, in front of, left side, right side, between

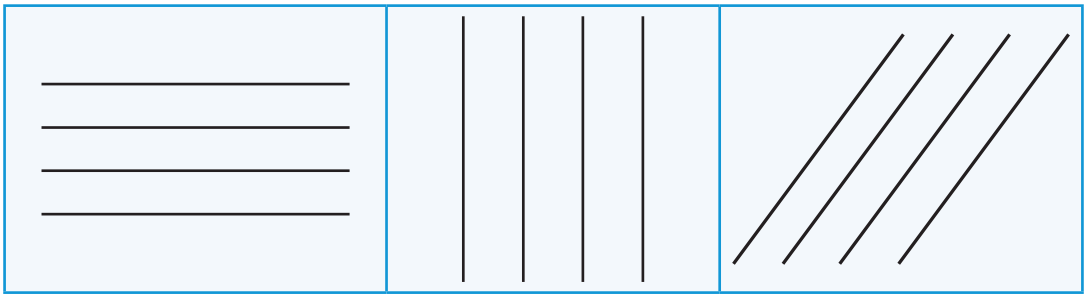


Children are ..... the road

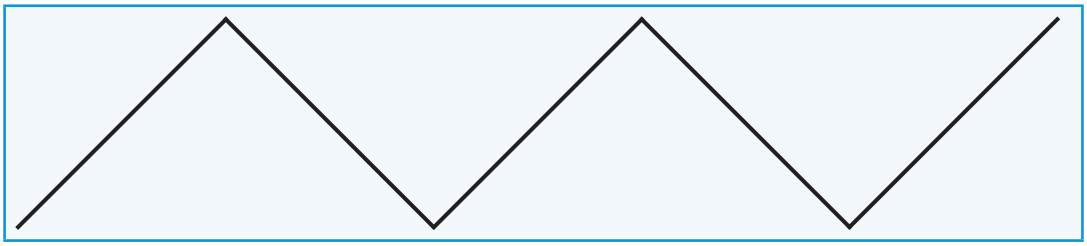
Father and mother are ..... the road

Houses are ..... the road

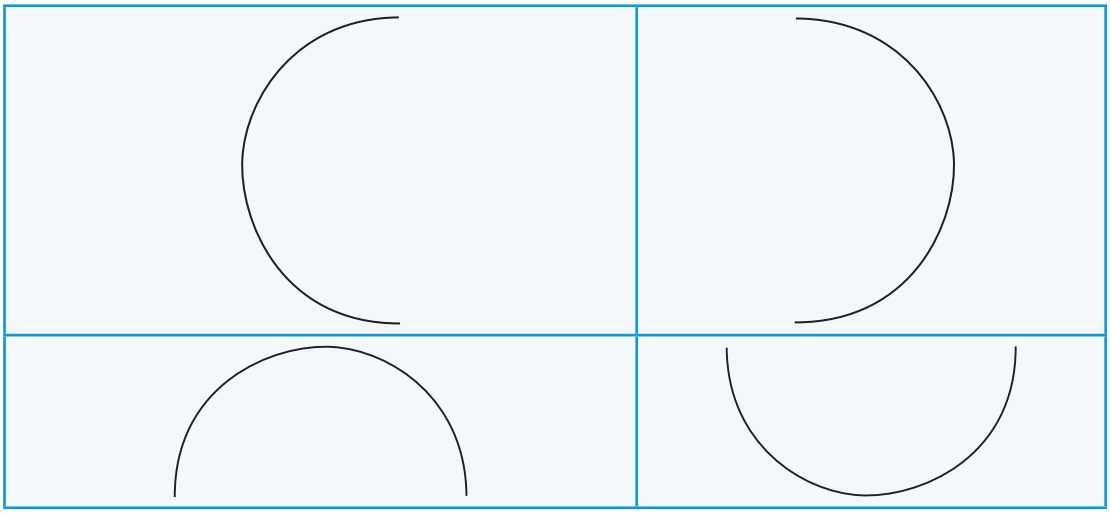
Look at the straight lines and draw them properly.



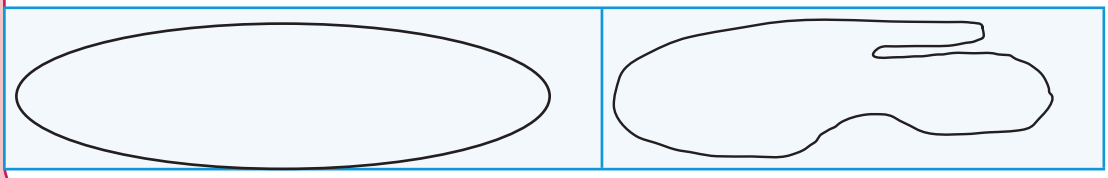
Look at the cutting line and draw it properly.



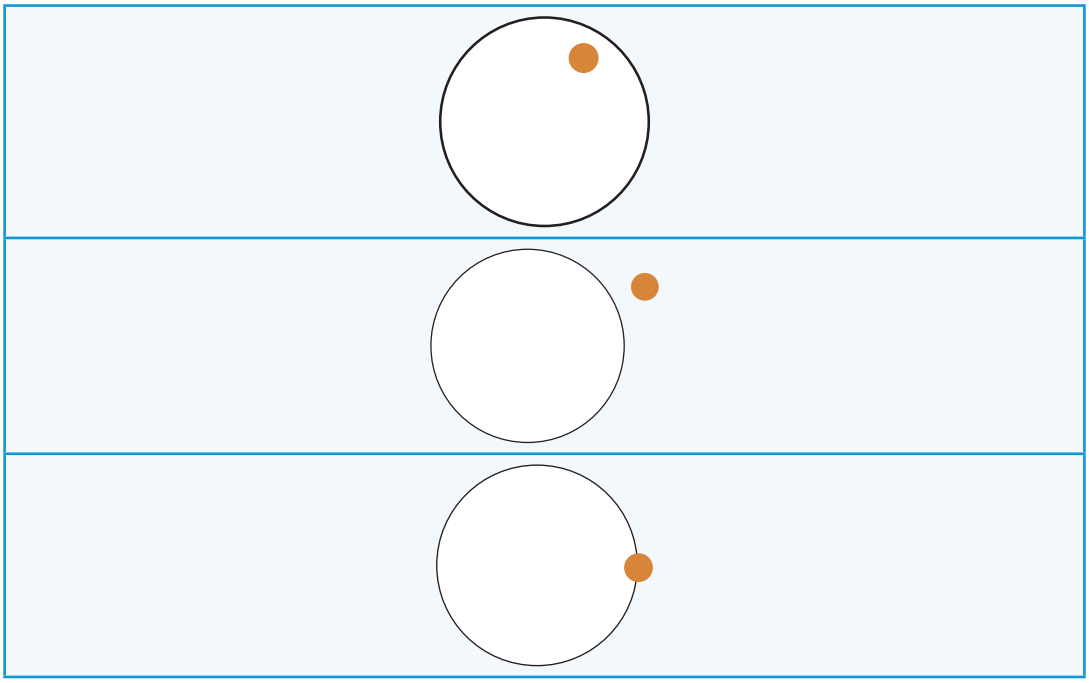
Look at the curved lines and draw them properly.



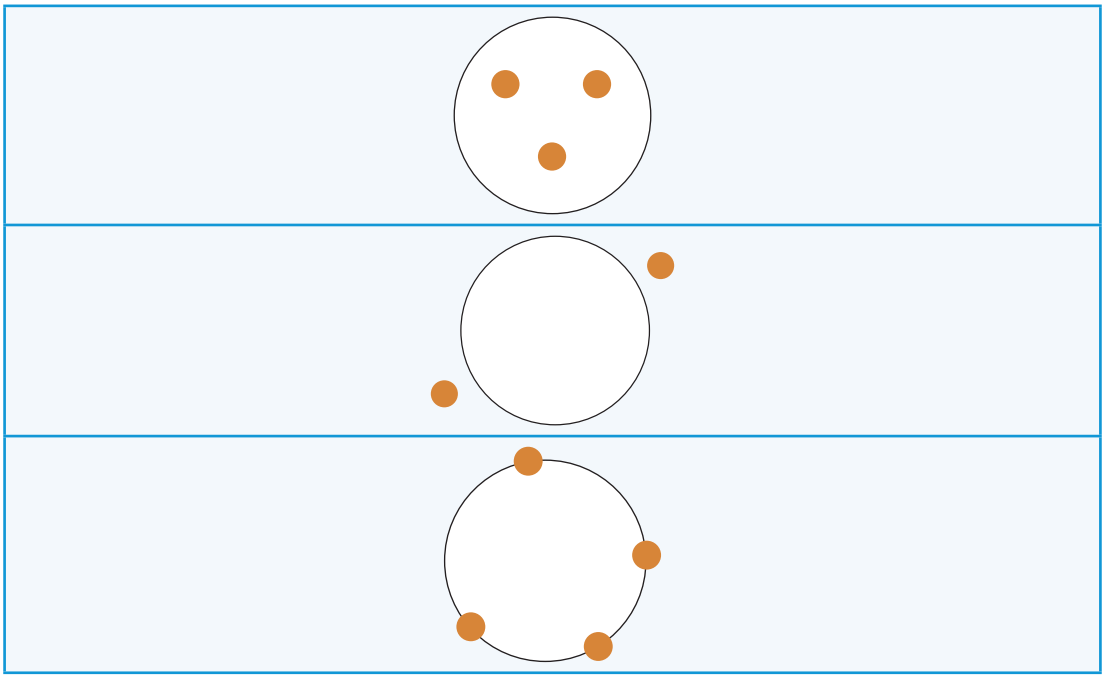
Look at the closed lines and draw them properly.



Look at the circle and tell where dots are located: *inside, outside, on*.



Look at the circle, count dots and tell where they are located: *inside, outside, on*.



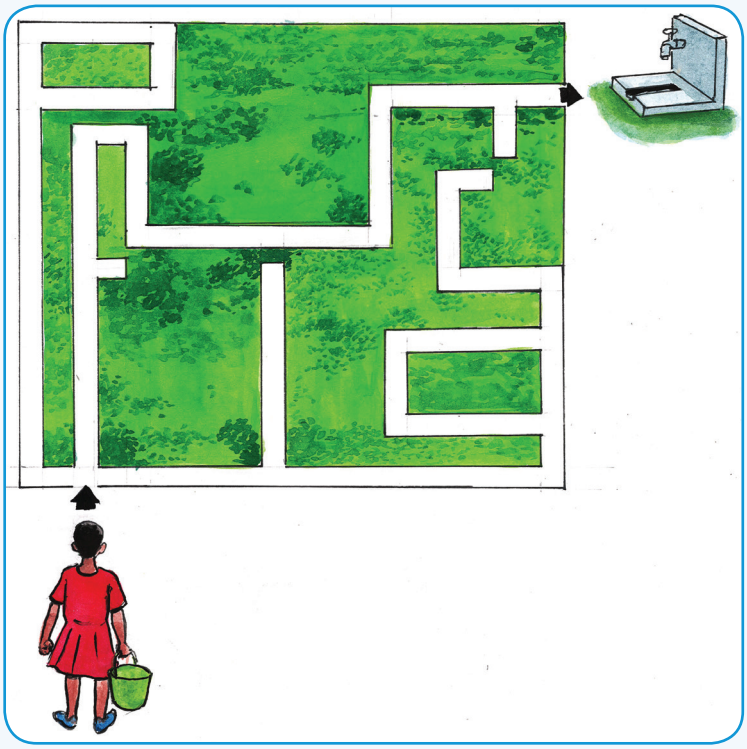
RIGHT ANGLE, SQUARE AND RECTANGLE.

Activity (A)

1. Look at the picture below.

2. What do you see in the picture?

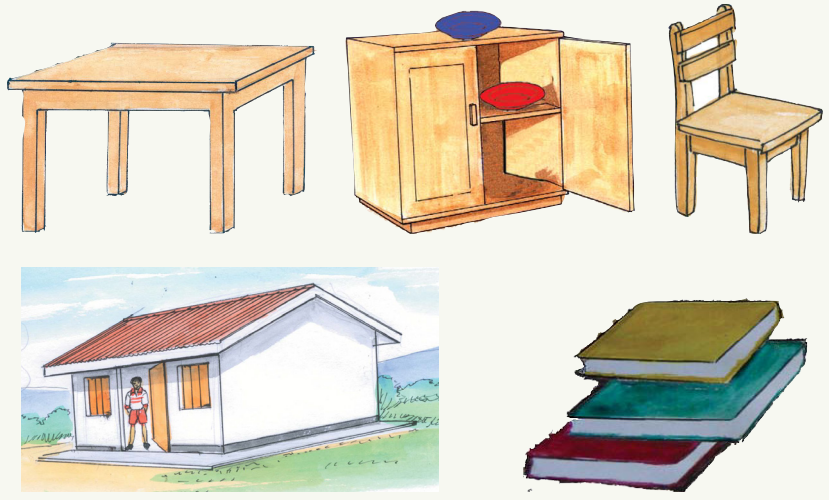
3. What is the shape of the kid's path in the picture below?



Look at the objects carefully.

1. Show all Horizontal right angles.

2. Show all Vertical right angles on the objects.

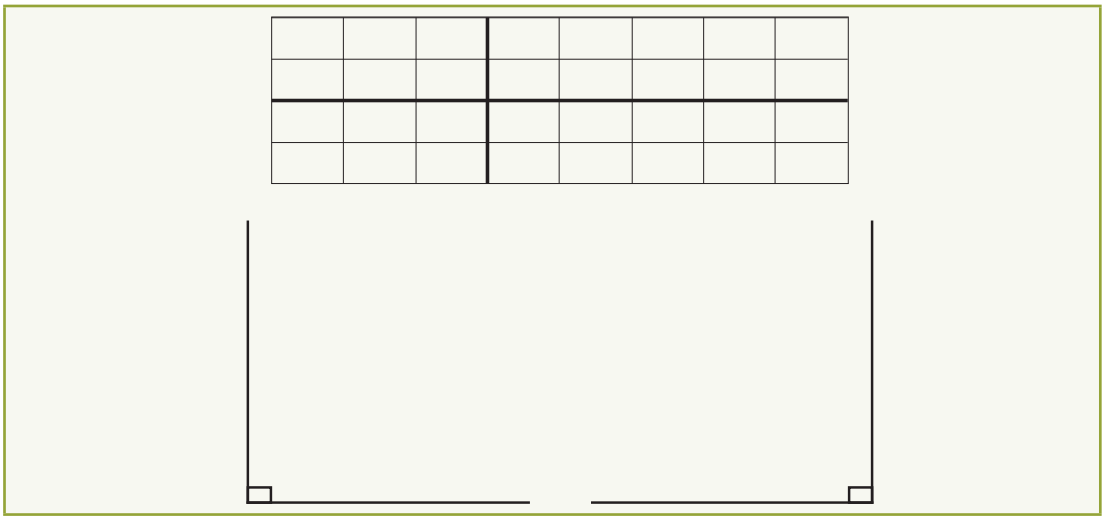


Look at the grid below carefully.

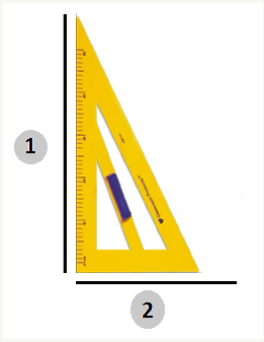
1. Show Horizontal straight lines.

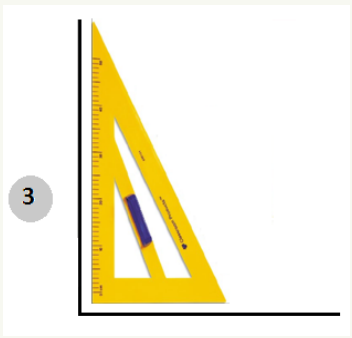
2. Show Vertical straight lines.

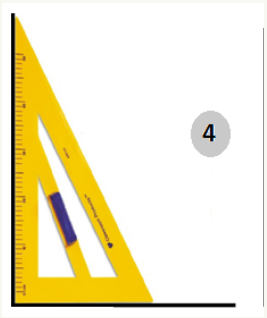
3. Show intersecting point of Horizontal straight lines and Vertical straight lines.

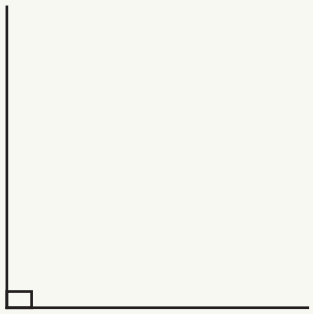


Follow how to draw a right angle and do the same.

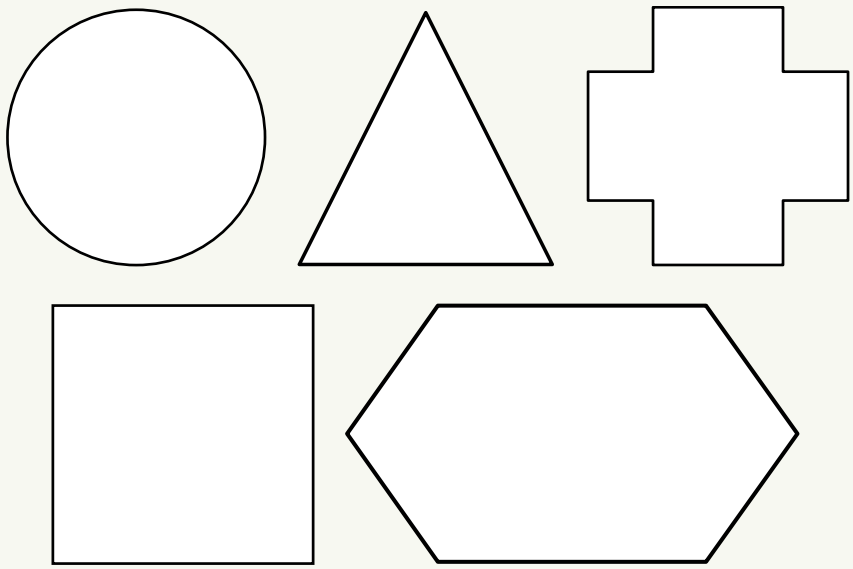




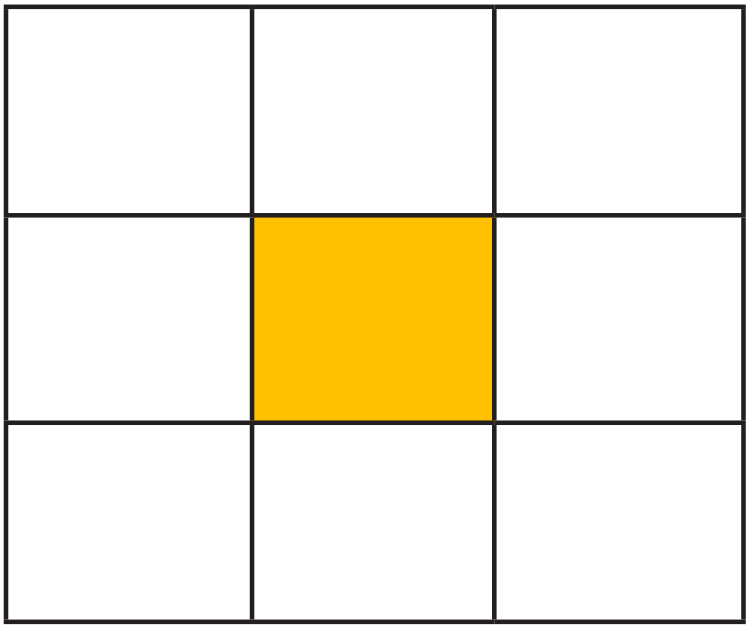




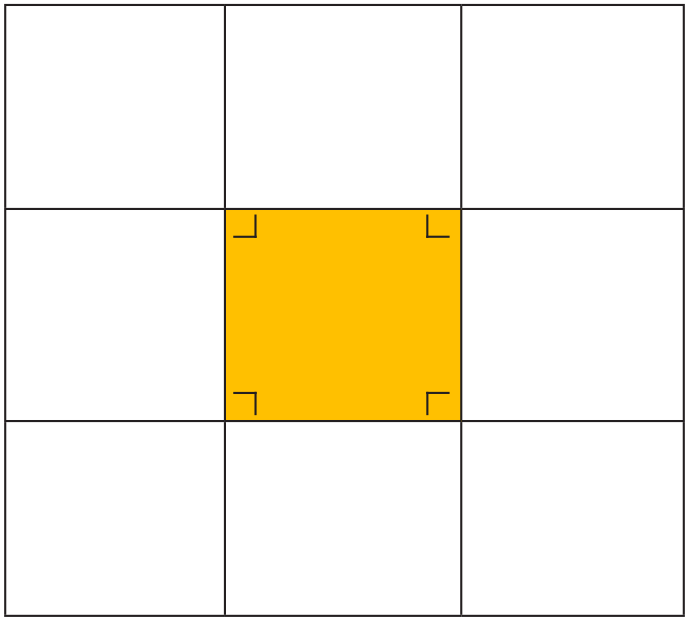
Look at the shapes and select all shapes with 4 sides.



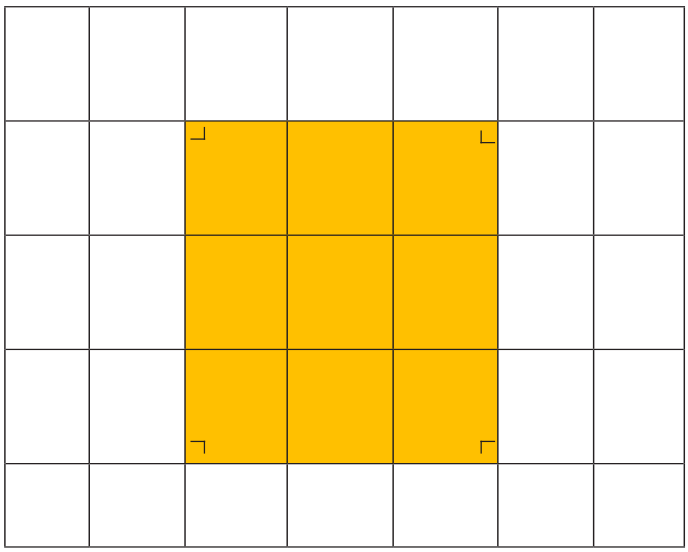
Look at the shaded shape and show its sides.



Look at the shaded shape and show its angles.

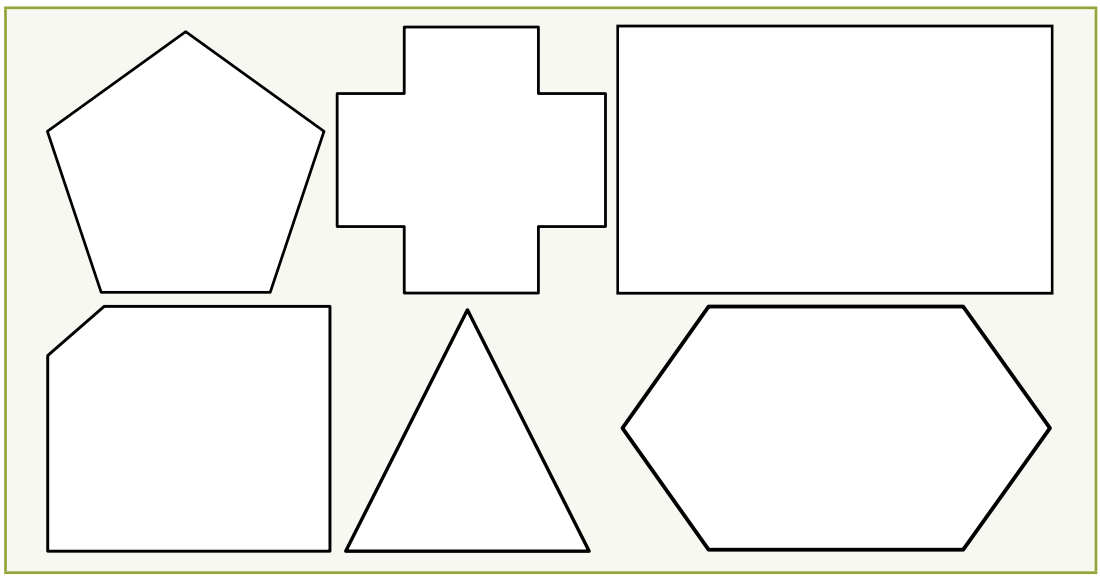


Look at the shaded shape and answer the given questions

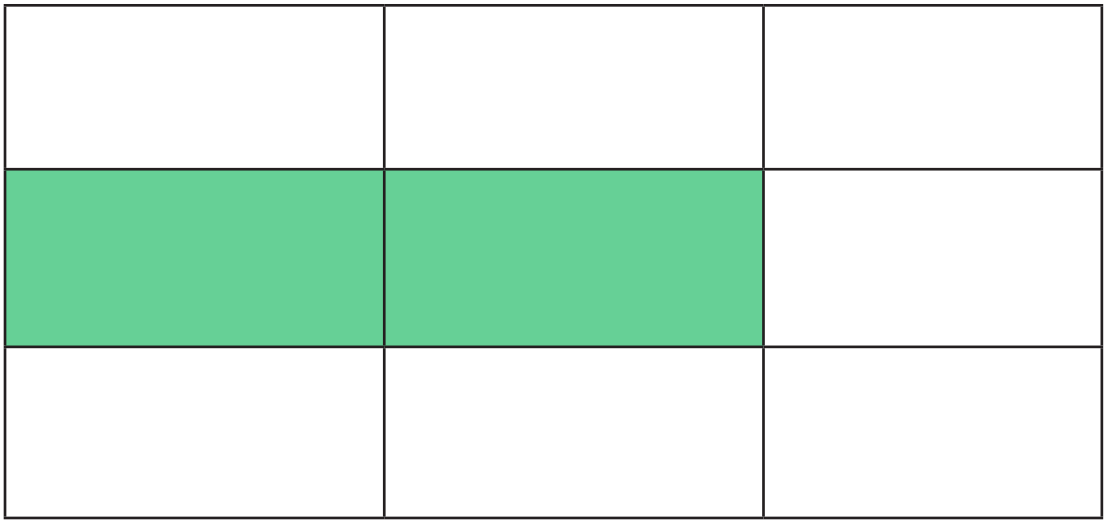


1. How many small squares are on each side of the shaded shape?
2. How many angles do you find on each side of the shaded shape?
3. How are those angles?

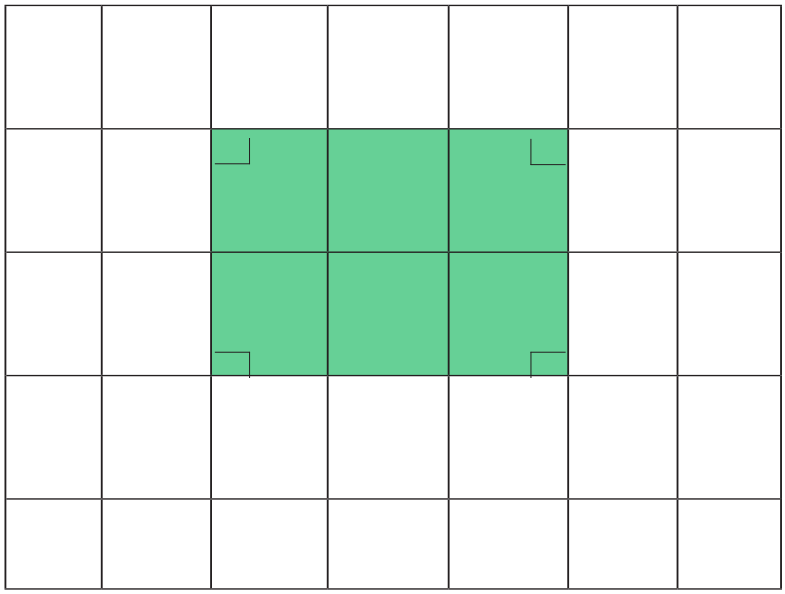
Look at the shapes and select all shapes with 4 sides.



Look at the shaded shape and show its sides.

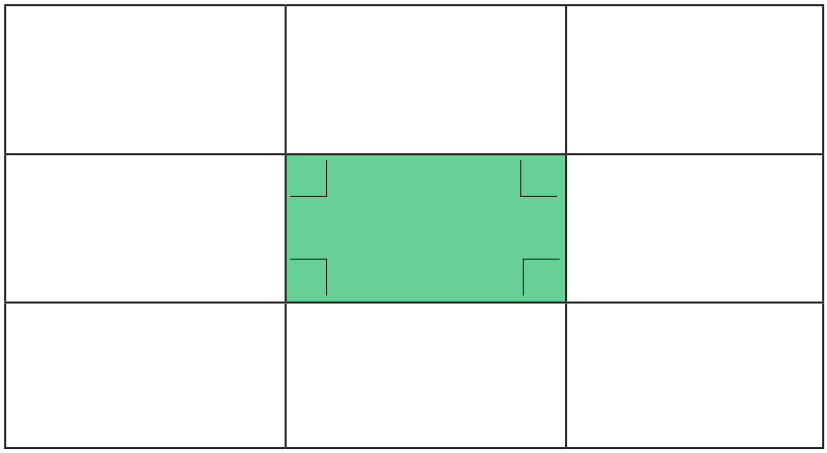


Look at the shaded shape and answer the given questions.

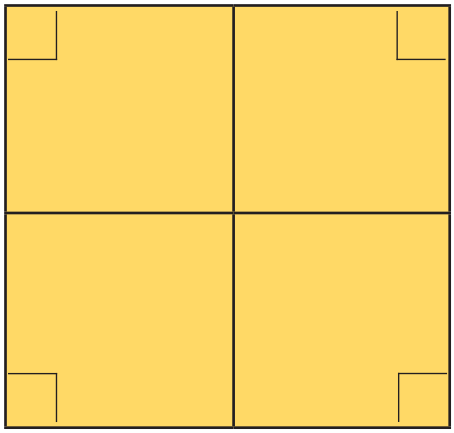


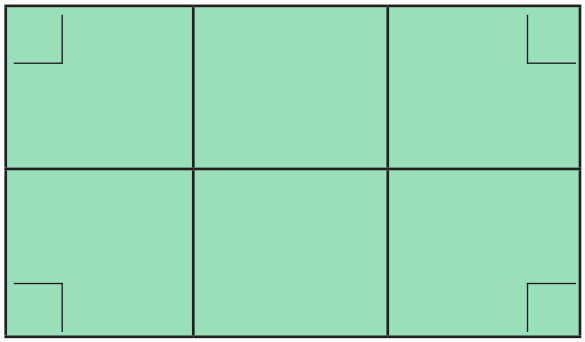
1. How many small squares are on each side of the shaded shape?
2. How many angles do you find on each side of the shaded shape?
3. How are those angles?

Look at the shaded shape and show its angles.



Draw the following shapes properly.





Do the following activities.

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