4. ADDITION

Let us recall.

3 + 2 = 5

__ + __ = ____

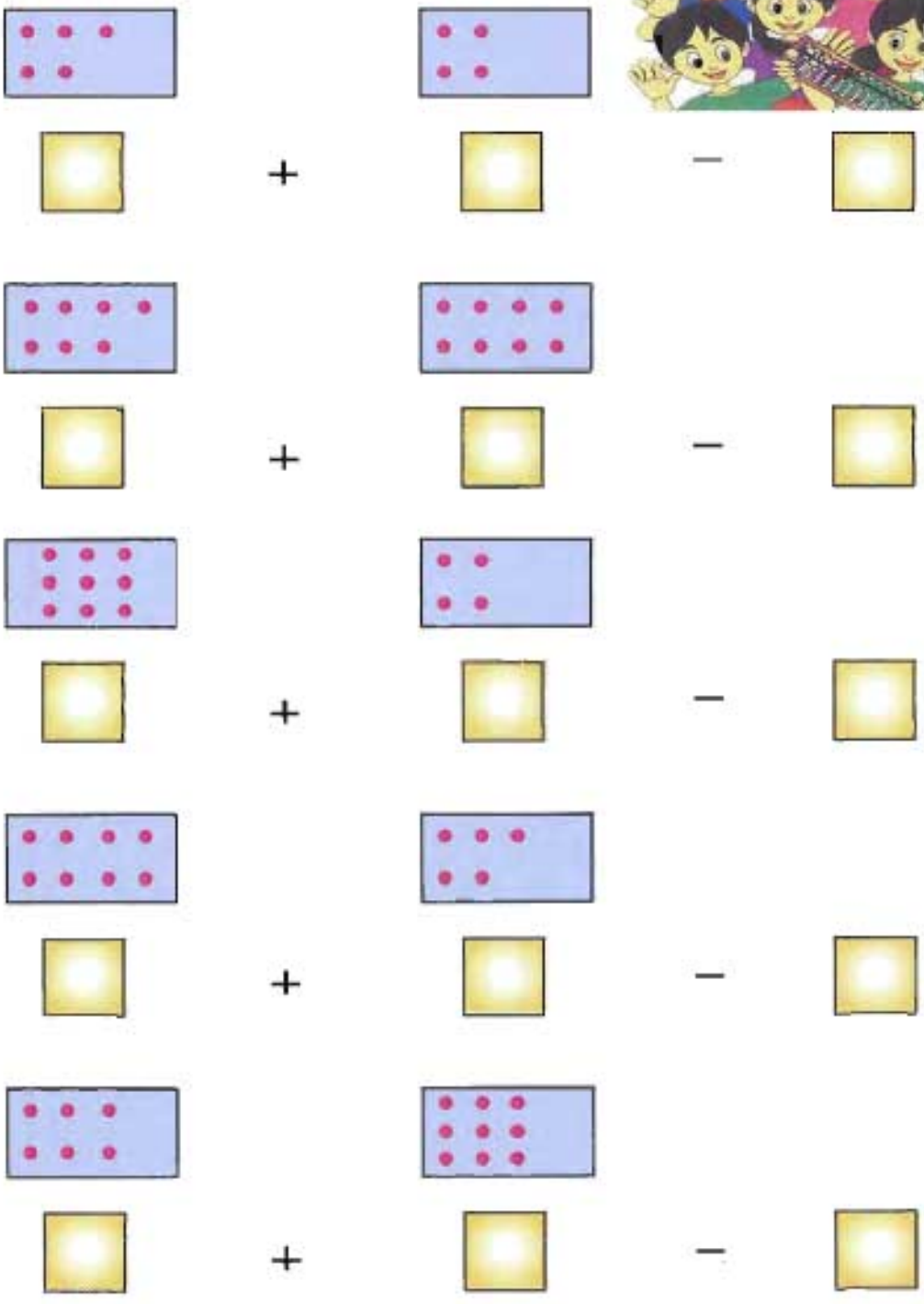
__ + __ = ____

__ + __ = ____

__ + __ = ____

Addition means put together or added together.
It is represented by the symbol '+'

Count and Add.



Fill the addition table

+	0	1	2	3	4	5	6	7	8	9
0			2							
1									9	
2						7				
3				6						
4	4									
5						10				
6								13		
7		8								
8							14			
9										

Addition of 2 - digit numbers (without carrying)

Add 32 + 4

32 + 4 = 36

Add, 4 ones and 2 ones = 6 ones .

Write 6 in the ones place .

Write down 3 in the tens place .

We get, 32 + 4 = 36

	T	O
	3	2
+		4
	3	6

Do it yourself

	T	O
	2	4
+		2

	T	O
	4	6
+		3

	T	O
	7	2
+		6

	T	O
	3	4
+		1

	T	O
	6	3
+		4

	T	O
	7	3
+		5

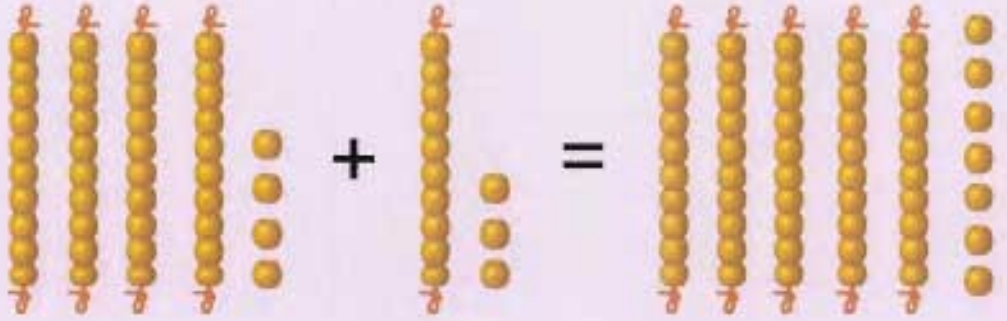
	T	O
	6	3
+		2

	T	O
	6	7
+		1

	T	O
	2	8
+		1

	T	O
	5	0
+		4

Add : 44 + 13



44 + 13 = 57

Add ones

3 ones + 4 ones = 7 ones .

write 7 under the ones place .

Add tens

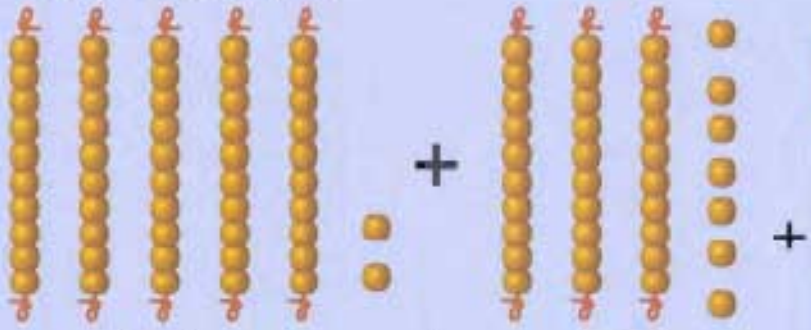
1 ten + 4 tens = 5 tens .

write 5 under the tens place .

we get 44 + 13 = 57

	T	O
	4	4
+	1	3
	5	7

Add : 52 + 37

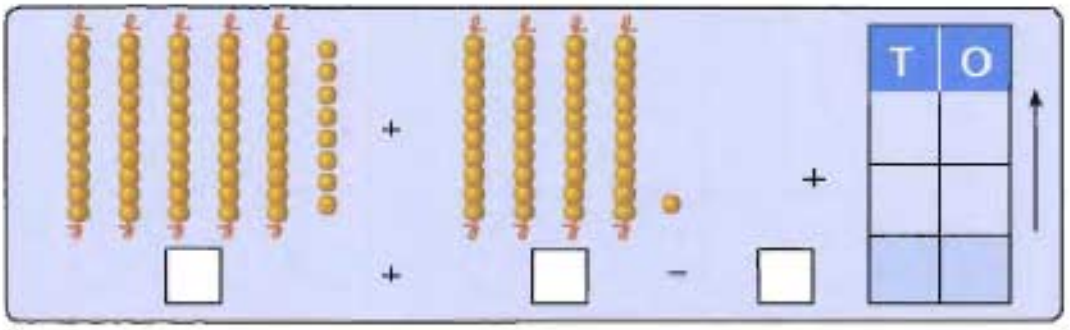


	T	O
	5	2
+	3	7
	8	9

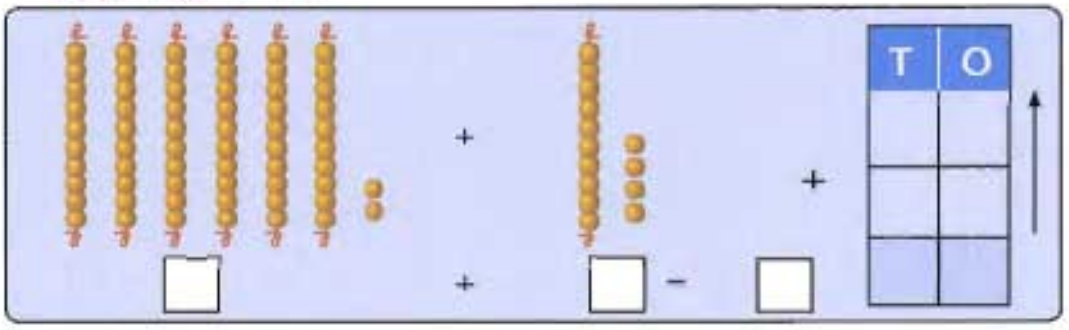
52 + 37 = 89

ACTIVITY

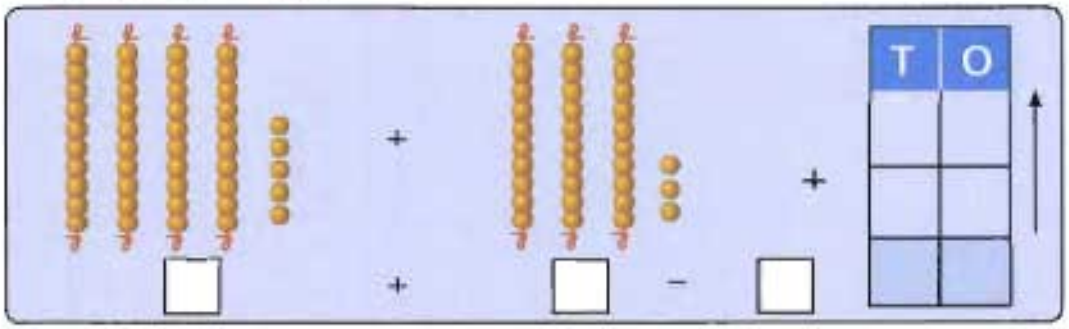
Add : 58 + 41



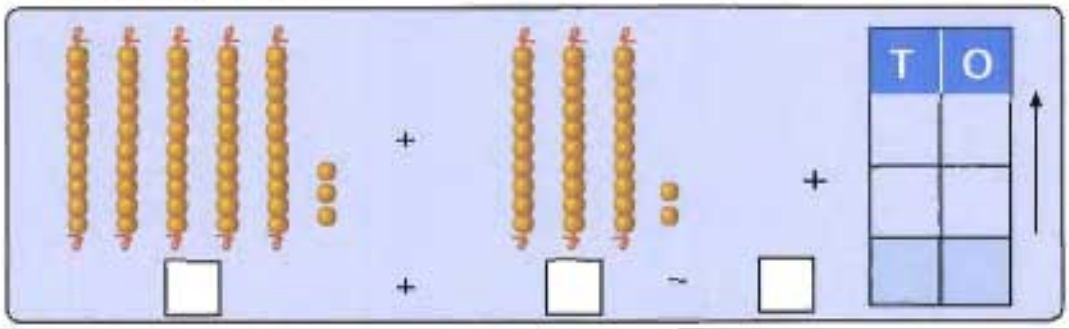
Add : 62 + 14



Add : 45 + 33



Add : 53 + 32



Add and write the answer

	T	O
	3	2
+	2	3

	T	O
	4	5
+	3	4

	T	O
	6	2
+	3	6

	T	O
	4	0
+	2	9

	T	O
	5	3
+	3	1

	T	O
	6	7
+	2	0

	T	O
	8	2
+	1	2

	T	O
	7	2
+	2	4

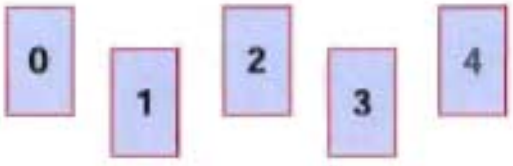
	T	O
	5	2
+	4	1

	T	O
	5	6
+	4	1

	T	O
	3	2
+	2	4

	T	O
	6	2
+	2	3

ACTIVITY



Take any 3 cards

Form 2-digit numbers

22, 23, 24, 32, 33, 34, 42, 43, 44

Take any 2 numbers and add.

Think!

If you take 0 as one of the 3 cards, how many 2-digit numbers can be formed ?

	T	O
	2	3
+	2	4

23 + 24 = ☐

Adding 3 two digit numbers.

* We can also add two or more numbers at a time. Let us add three numbers now **43, 32, 22.**

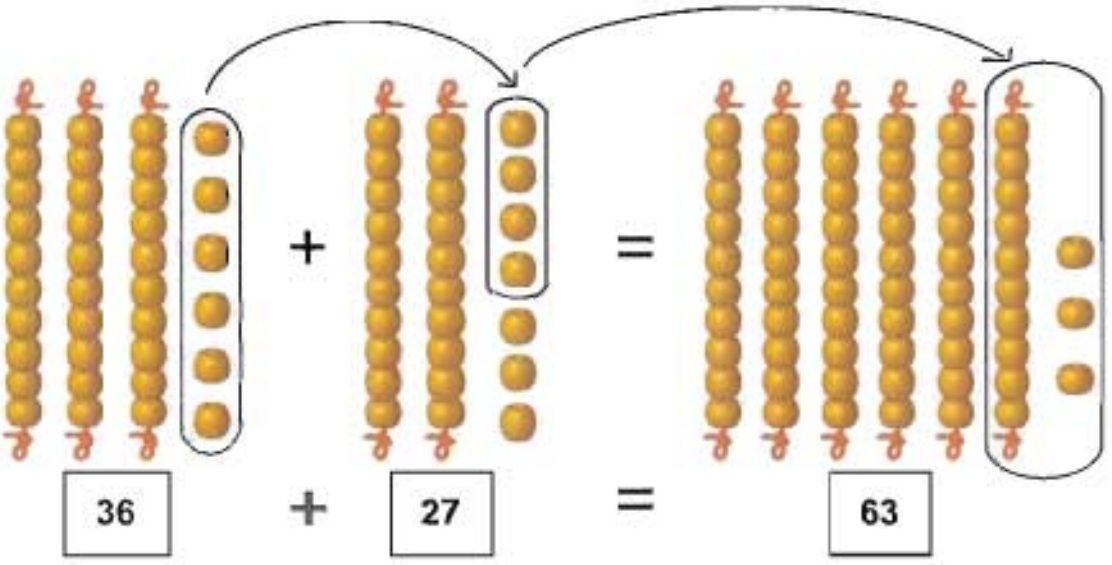
	T	O
	4	3
	3	2
+	2	2
	9	7

Add ones and write in the ones place

Add tens and write in the tens place

ADDITION OF 2-DIGIT NUMBERS (WITH CARRYING)

Add : 36 + 27



★ 7 ones + 6 ones – 13 ones
Change 13 ones into 1 ten and 3 ones

★ Write 3 in the ones place and carry 1 ten to the tens place .

★ Add the tens.
2 tens + 3 tens + 1 ten – 6 tens

★ Write 6 under the tens place.

	1	
	T	O
	3	6
+	2	7
	6	3

36 + 27 = 63

Shall we add more than two 2-digit numbers ?

Add 45 + 34 + 13

Add the numbers which are in the ones place

3 ones + 4 ones + 5 ones – 12 ones

change 12 ones – 1 ten + 2 ones

Write 2 in the ones place and carry 1 to tens place.

Now, add the tens

1 ten + 3 tens + 4 tens + 1 ten = 9 tens.

Write 9 tens in the tens place

45 + 34 + 13 = 92.

	T	O
	1	
	4	5
	3	4
+	1	3
	9	2

Add and write the answer

	T	O
	4	3
+	2	9
	7	2

	T	O
	2	7
+	4	6

	T	O
	2	5
+	3	7

	T	O
	1	8
+	2	3

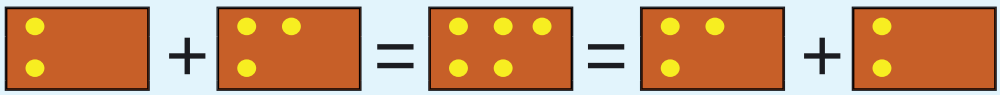
	T	O
	6	7
+	2	6

	T	O
	3	8
+	4	6

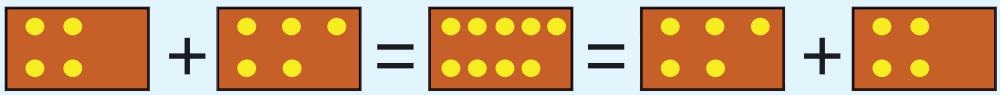
	T	O
	5	2
+	2	4
	1	8

	T	O
	1	6
+	2	7
	4	5

Properties of addition



2 + 3 = 5 = 3 + 2

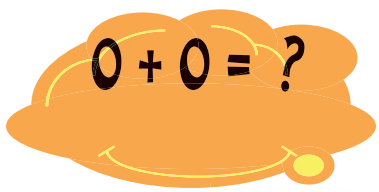


4 + 5 = 9 = 5 + 4

Even if we change the position of the numbers, the value remains the same

Addition with zero

5 + 0 = 5



Any number added to zero or zero added to any number gives the same number

Fill in the boxes

1 + 4 = ☐ + 1

10 + ☐ = 5 + 10

14 + 6 = ☐ + 14

3 + 0 = ☐

0 + 7 = ☐

5 + 0 = ☐

Add

	T	O
	4	0
+	2	7

	T	O
	7	0
+	2	0

Word Problems (Addition)

Ravi has **5** red balls and **3** green balls.

How many balls does he have in all?

Red balls = 5

Green balls = 3

Total number of balls = 8

Ravi has **8** balls.

A fruit seller has **40** oranges and **25** apples in his shop.

How many fruits does he have in all ?

A fruit seller has

Oranges =

Apples =

Total number of fruits =

Fruit Seller has _____ fruits

There are **19** boys and **23** girls in a class.

How many children are there in the Class?

Number of boys =

Number of girls =

Total number of children =

There are _____ children.

Uma has ₹ **40**. Her father gave her ₹ **20** more. How much does she have now?

32 children were playing in the park . **10** more children joined them. How many children were playing?

In a bus, there were **23** men, **32** women and **12** children. How many passengers were there in the bus ?

In a library there are **50** Tamil books and **40** English books. What is the total number of books in the library ?

In a Cricket match, Arul scored **19** runs and John scored **24** runs. How many runs did both of them score?

In a pond, there are **18** lily flowers and **15** lotus flowers. How many flowers are there in the pond?

Mind Maths

In a basket, there are **30** mangoes and **10** bananas. How many fruits are in the basket?

In a farm, there are **20** goats and **30** cows. How many cattle are there in the farm?

On Saturday, I read **30** pages of a story book. I read another **20** pages on Sunday. How many pages did I read in all?

In two queues, there were **40** men and **50** women. How many people were there in the queues?

60 coconut saplings and **10** mango saplings were planted in a farm. Find the total number of saplings in the farm?

Let us form addition stories

Tell me a story for this addition fact,

8 + 4

Umar had **8** rupees in his piggy bank. He puts **4** rupees more in it. How much does he have now?

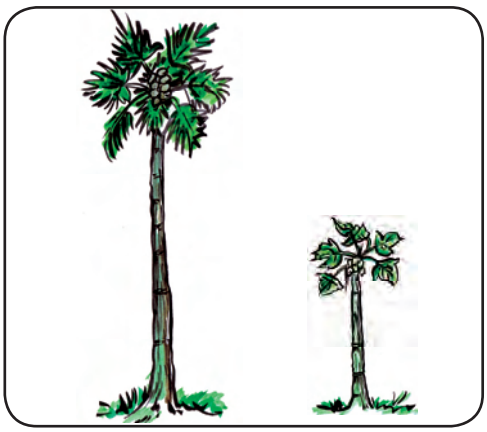
Rita has **8** red bangles and **4** green bangles. Find the total number of bangles she has?

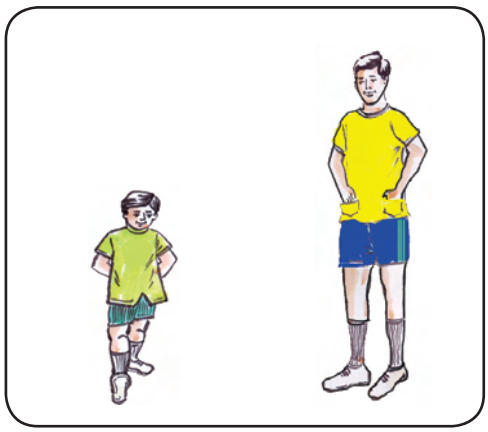
Teacher's Note

- To develop the addition skill in day-to-day life, the above oral activity is suggested
- Teacher may give more addition facts to the children and ask them to narrate the stories of their own.

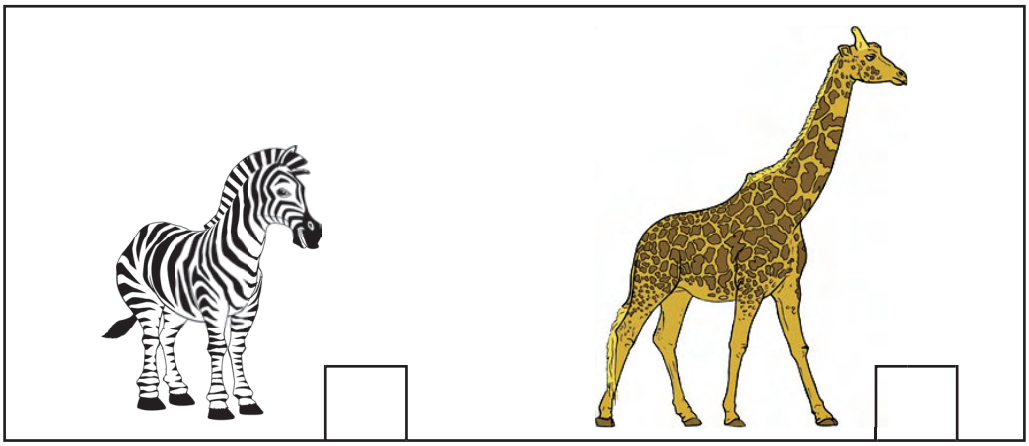
5. MEASURES OF LENGTH

Observe the height of the following pictures.

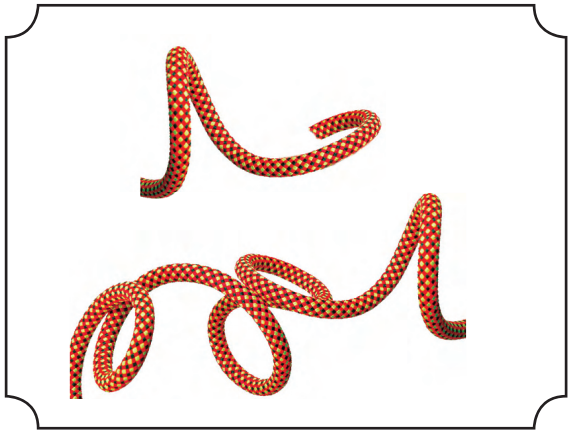




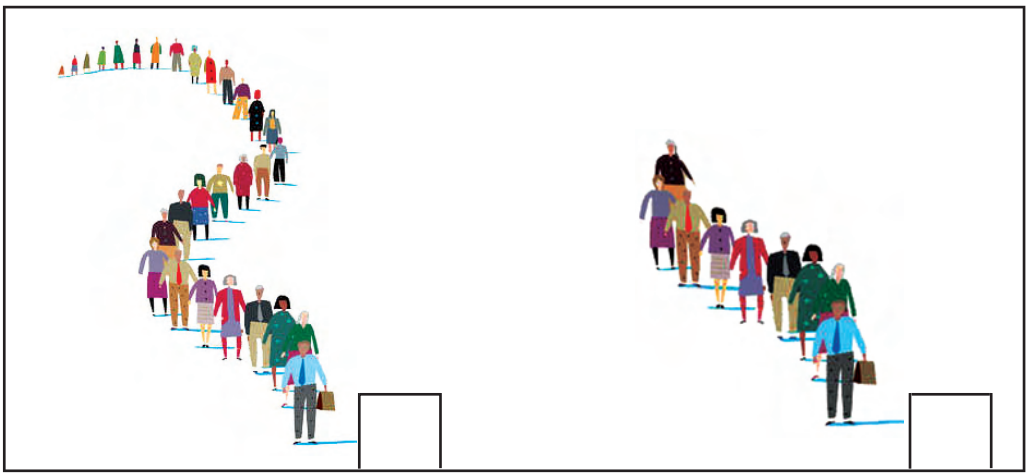
Tick the taller object.



Observe the length of the following pictures.

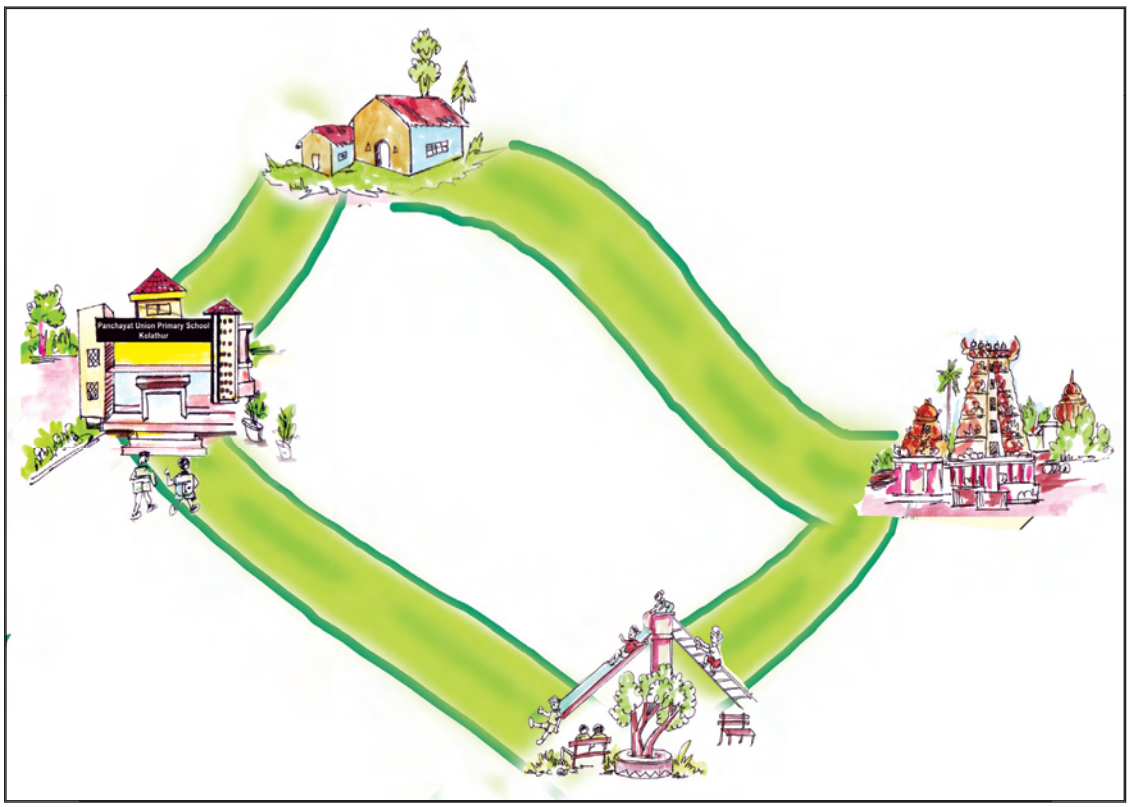


Tick which is longer.



Discuss
with your friends
What is depth?

Observe the picture.



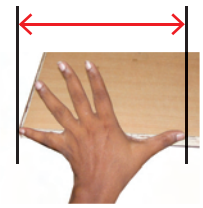
Put (✓) for the correct answer.

Which is nearer to the house?
School / Temple.

Which is nearer to the park?
Temple / School

Which is far from the temple?
Park / House

We measure the length or distance in many ways.



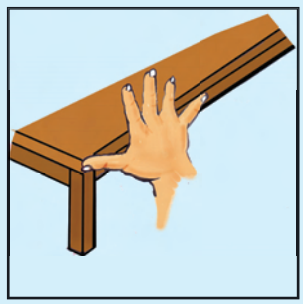
Hand span

Finger span

Cubit

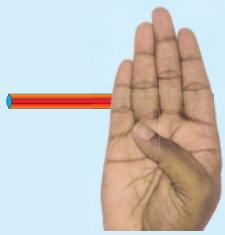
ACTIVITY

Measure the things in the classroom by using your hand span, finger span and cubit.

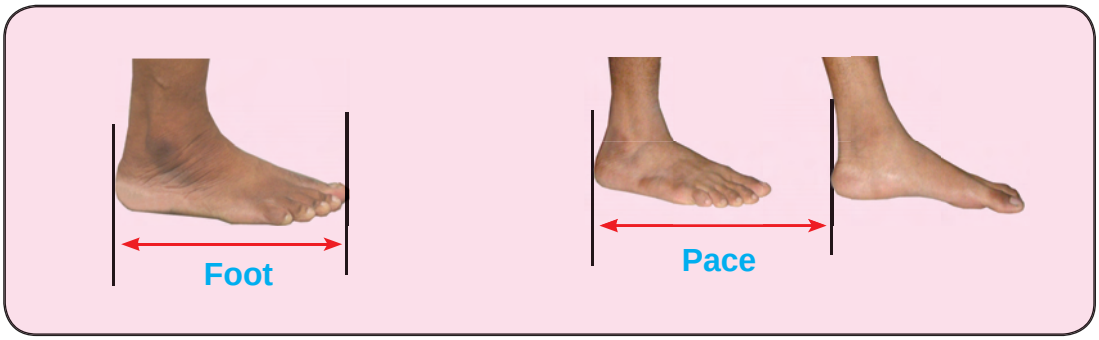


- The length of the table is _____ hand spans and ____ finger spans.

- The length of the pen is _____ finger spans.



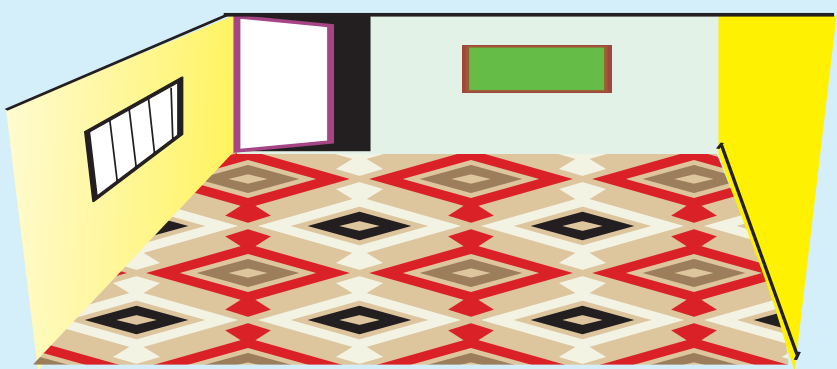
- The length of the blackboard is _____ cubits.



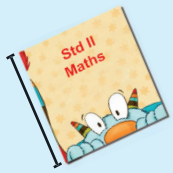
The length of the cricket pitch is 22 paces.

ACTIVITY

The length of your classroom is ____ feet.



Use the following to measure the given objects.


	_____  _____ 
	_____  _____ 
	_____  _____ 

In the above activities, compare your answers with your friends. This may not be the same. You see some differences in measures. Why?

The size of the hand and foot differs from person to person.

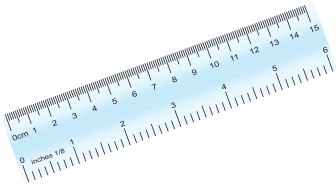
So there is a need for the standard unit of measurement. When we use standard units, the measurements would be the same.

★ Metre is the standard unit of length.

★ We measure bigger lengths in metres.

★ We measure smaller lengths in millimetres.

★ The scale has centimetres on one side.



We buy cloth by measuring its length in metres.

A tailor takes measures of length to stitch a shirt in centimetres

ACTIVITY

Find out which distance is shorter.

Your house to the school.

(or)

Your friend's house to the school.

Do you know?

The longest bone in the human body is the thigh bone.