

# CH13 SMART CHARTS

- INTRODUCTION
- WHAT IS DATA?
- TALLY MARKS

## ■ ■ What is data ?

**A collection of facts, such as numbers, words, measurements, observations or even just descriptions of things.**

# **DIFFERENT WAYS OF REPRESENTING DATA:**

Data can be represented in many ways .  
They are:

- 1) Tally graph
- 2) Pictograph
- 3) Bargraph

# WHAT ARE TALLY MARKS?

- Tally marks are used for counting and to keep a track of numbers in the quickest possible way.
- These marks are generally used for counting scores, points, number of people, etc.
- It is a method of collecting data that can be arranged in a tabular form.
- A tally mark is represented with the symbol " | ". Thus, tally marks make counting easier.

# HOW TO DRAW TALLY MARKS?

- Tally marks are clustered in groups of five for readability.
- So for the first four counts, we draw an individual line for each, and for the fifth count, the line goes across the previous four lines.
- For the sixth count, we will continue drawing individual lines again.

## Tally Marks

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

# EXAMPLE

For example, the chart given below is made by a pizza seller which shows one column of "day" and the other column of "pizzas sold on each day". Let's find out pizzas sold on Monday and Friday.

Tally Marks Chart

Day	Pizzas sold
Monday	/
Tuesday	
Wednesday	/
Thursday	/
Friday	/    /

- The number of pizzas sold on Monday is  $5 + 3 = 8$ .
- The number of pizzas sold on Friday is  $5 + 5 = 10$ .

**Ex1: Draw the tally marks for the following numbers:**

a) 9 → 

b) 14 → 

c) 13 → 

**Ex 2: Write the numbers representing the tally marks:**

a) 

b) 

c) 

**Ex 3 :** Consider a garden with lots of flowers. Mary has different types of flower pots which are given in the table below:

Names of flower	Number of pots
Rose	
Lily	
Jasmine	
Tulip	
Daisy	
Violet	

Using this table, answer the below questions:

- (i) How many Daisy flower pots are there? **Ans: 2**
- (ii) Which two flowers have the same number of pots? **Ans: Lily and Jasmine**
- (iii) Which flower has the maximum number of pots? **Ans: Tulip**

**EX: 4** The scores obtained in 20 throws of a dice are:  
 5, 4, 3, 2, 1, 1, 2, 5, 4, 6, 6, 6, 3, 2, 1, 4, 3, 2, 2, 4  
 Prepare the frequency table for the above scores.  
**Solution :** Frequency table of scores in 20 throws.

Scores	Tally marks	Frequency
1		3
2	<del>    </del>	5
3		3
4		4
5		2
6		3
	Total	20






# WS95

- 1) WHAT IS DATA?
- 2) DRAW THE TALLY MARKS OF THE FOLLOWING:  
a) 6      b)12      c) 4
- 3) WRITE THE NUMBERS REPRESENTED BY THE TALLY MARKS:

Food Items	Tally Marks
Burger	
Cake	
Patties	
Ice-cream	

- 4) ANSWER THE FOLLOWING BASED ON TALLY CHARTS:

MISS I made a tally chart of the vehicles and people they saw passing by between 10.00am. and 11.00am.

Answer the following questions:

- 1) How many people walked passed the school? \_\_\_\_\_
- 2) How many cars drove passed the school? \_\_\_\_\_
- 3) How many vans drove passed the school? \_\_\_\_\_
- 4) How many motorbikes drove passed the school? \_\_\_\_\_
- 5) How many lorries drove passed the school? \_\_\_\_\_
- 6) How many vehicles drove passed the school? \_\_\_\_\_

- 5) DRAW A TALLY CHART FOR THE FOLLOWING:

Vijay threw a die 18 times and noted down the result each time as follows. Prepare a table on the numbers shown using tally marks.

3	2	4	3	5	6	1	1	3
3	4	5	3	6	4	4	2	3

- 6) DRAW A TALLY CHART FOR THE FOLLOWING:

TEACHER ASKED 15 STUDENTS ABOUT THEIR FAVOURITE FRUITS WHICH ARE GIVEN BELOW: MANGO, GUAVA, APPLE, ORANGE, APPLE, MANGO, ORANGE, MANGO, ORANGE, APPLE, GUAVA, MANGO, ORANGE, MANGO, APPLE