



G3.51 | RECOGNIZE PATTERNS IN RECORDED DATA

Time, Money and Data Handling Concepts - NCERT Chapter 13: Smart Charts

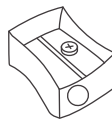
Students will be able to recognize patterns in recorded data, draw inferences, and classify data based on the frequency

40- 50 min

PRE REQUISITES:

G3.50 Know how to record data using tally marks and numerals in tables

TLM



Sharpener 1 : 1 student

MISCONCEPTIONS

None

KEY VOCABULARY

None

PLAY

Black sharpeners = 5

Yellow sharpeners = 3

White sharpeners = 7

Which color is most common

- Ask the students to hold up their sharpeners
- Ask the students to look at the sharpeners of other students and tell which is the most common color

QUESTION

Some of you think black is more common & some of think orange is more common.
How can we confirm which is ?

- Allow students to come up with solutions

- Tell them that they can make a table of colors and write the number of sharpeners for each color

- Write the colors on the blackboard and assign one student to count the number of black sharpeners

- Assign one student to count orange, one to count red, and so on

QUESTION

Which color is least common for sharpeners? How do you know?

PROCESS

Colour	Number of cars	Tally marks
	15	/// /// ///
	11	/// ///
	7	///
	5	///

Colour of cars

- Draw the table on the blackboard as shown. Tell there are 15 white cars, 11 grey cars, 7 black cars & 5 yellow cars

- Explain to the students that white is the most common color among cars as it is highest in number

- Explain that yellow is the least common colour as it is the lowest in number

- Emphasize that least implies the lowest in number and most implies maximum in number

- Tell that they can also look at the tally marks to find out which car is most common Point to the first row

- Tell that 3 groups of 5 tally marks represent 15 & none of the other groups have 3 groups of 5 or more tally marks

- Point to yellow cars and tell the students that there are 15 white cars but only 5 yellow cars

- Explain that it means there are $15-5=10$ more white cars than yellow cars

PRACTICE

Day	Number of cars repaired	
Monday		3
Tuesday		5
Wednesday		2
Thursday		7
Friday		4
Saturday		4
Sunday		

Draw the question on the blackboard and ask the students to solve it

- Help the students solve question 2 from the worksheet. Ask the students to look at the table and tell on which day were the most number of cars repaired

- Encourage the students to make other interpretations by looking at the table

- Allow the students to make interpretations like "no cars were repaired on Sunday", or "3 cars were repaired on Monday and Tuesday" etc.

QUESTION

How many more cars were repaired on Saturday than Wednesday?



- ① SOLVED EXAMPLE : Observe the table and answer the questions below:

How many children travel by cycle?

Ans: 5

How many more students travel by car than by bus?

Ans:

Tell the number of students who travel by train? Is it more or is it less than the number of students traveling by taxi

Ans:

Method of travelling	Number of children
	8
	9
	4
	5
	1
	3

- ② Look at the table and answer the questions

Day	Number of cars repaired	
Monday		3
Tuesday		5
Wednesday		2
Thursday		7
Friday		4
Saturday		4
Sunday		

- On which day were the most number of cars repaired
- How many cars were repaired in the week?

- ③ Sisir went to the zoo and saw many animals. Help him record the number of animals he saw and answer the following questions



Animals	Tally Marks	Number
Tiger		
Lion		
Hippo		
Monkey		
Zebra		

- How many more Hippos did he see than tigers?
- How many less zebras did he see than Lions?

- ④ There are 9 daisies, 8 tulips and 11 roses. Complete the table to show this information and answer the following questions:

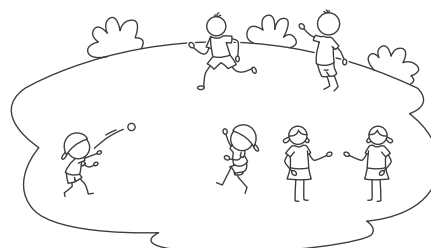
Flowers	Tally Marks	Total
Daisies		
Tulip		

- Which flower is least in number
- How many tulips will you add to get the same number of tulips and daisies ?



Srikant counted the number of people, trees and birds he saw in a garden and noted in form of this table.

1.	People	
2.	Trees	
3.	Birds	



Help him draw the correct number of people, trees and birds he saw in the garden