CHAPTER 5

DATA HANDLING WITH GOOGLE SHEETS

Data is all around us. We can find it in our lunchboxes, our games, and even our sleep. Let's explore how we can collect, understand, and use data.



1. What is data?

- a. A sandwich
- b. 8 hours of sleep
- c. A school bag
- d. A pencil box

2. Which of these is something you can count and turn into data?

- a. The smell of lunch
- b. Number of students wearing glasses
- c. The sound of the bell
- d. The color of your shoes

3. Which tool helps you make a chart or graph?

- a. Google Sheets
- b. Google Maps
- c. Google Earth
- d. Google Translate

Why do you think computers like numbers more than pictures?
If you were a robot in class, what kind of data would you collect to help the teacher?



Application Based Questions

6. Write 2 ways your school uses data.

7. What kind of data could your teacher collect during a science experiment? (choose all that apply)

a. Temperature

b. The name of the experiment

c. Plant height

d. The number of drops

e. A guess about the result

f. Time

8. How can data help you become a better student?

9. Imagine your school wants to save electricity. What data should they collect? (choose all that apply)

- a. The school's mascot.
- b. The electricity bill from each month.
- c. The number of lights left on in empty classrooms.
- d. The number of students who eat lunch in the cafeteria.
- e. The colour of the school walls.
- f. The amount of time computers are left on overnight.

10. How do you know if the data you collected is helpful or just random? (choose all that apply)

- a. It is easy to find on the internet.
- b. It answers the question you were trying to solve.
- c. It is organised in a way that makes sense, like in a table or a chart.
- d. It is written in your best handwriting.
- e. It includes your favourite numbers.
- f. It helps you make a clear decision or a good prediction.

11. What could happen if someone uses the wrong data to make a decision? (choose all that apply)

- a. The decision they make might not solve the problem.
- b. They might get a gold star for trying.
- c. They could spend money on something that isn't needed.
- d. The result might be the opposite of what they wanted to happen.
- e. The school day might get shorter.

12. A smartwatch tells you how many steps you walked today.

•	How do	you	think	it	knows	that?
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•	What	else	coul	d it	trac	K



13. Match the activity with the type of data.

Activity	Data Type
School Attendance	Number
Favourite Subject	Text
Homework Done?	Yes/No
Books Read	Text
Student Names	Yes/No

14. Match the tool with what it helps you do:

	Tool		Use
	Google Sheets		Make a chart
	Google Forms		Collect answers
	Google Docs		Write a story
	Google Slides		Make a presentation
15.	Why is it important to use the rig	ght tool for the	right kind of data?
		0-	4
16.	If you had to teach a robot to sor	t books, what k	ind of data would it need?
17.	What could go wrong if you mix	up numbers an	d text in your data?

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Understanding Data in Google Sheets

- 1. What is a cell in Google Sheets?
 - a. A battery

- b. A box where you write data
- c. A box where you write data
- d. A phone signal
- 2. What does a column look like in Google Sheets?
 - a. A row going sideways
- b. A tall stack going up and down

c. A circle

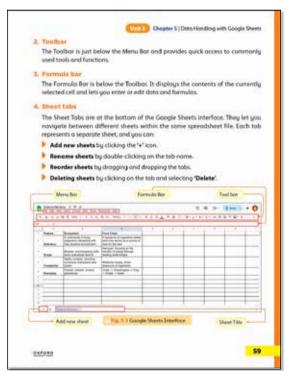
- d. A diagonal line
- 3. Why do you think Google Sheets is useful for organising data?

4. Look at the screenshot of Google Sheets. Label the following parts:

Cell	Row	Column
Formula Ba	r Toolbar	1 4

5. Fill in the blanks

- a. To enter data, I click on a _____
- b. The _____ bar shows the formula I'm typing.
- c. A _______ is where a row and a column meet.
- d. Charts turn numbers into pictures so we can spot _____ quickly.
- e. Sorting and ______ are useful to find what we need faster and make big data easier to understand.



6.	What happens when	you sort data in Google Sheets?
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- a. It disappears
- b. It gets arranged in order
- c. It turns into a chart
- d. It becomes a game

7. Which tool helps you see only the data you want?

- a. Zoom
- b. Filter
- c. Copy
- d. Paint

8. What does AI use to learn and make decisions?

- a. Magic
- b. Paintings
- c. Dreams
- d. Data

9. Which of these is a smart way to use data in school?

- a. Guessing who is absent
- b. Drawing cartoons
- c. Asking random questions
- d. Using attendance data to track who's missing

10. What should we be careful about when using data from people?



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DATA HANDLING WITH GOOGLE WORKSHEET 3 SHEETS



Sequencing

- 1. Arrange the steps to open a template and prepare it for use:
 - Click on 'File'
 - Select 'New'
 - Choose 'From template gallery'
 - Browse available templates
 - Click on the desired template

- Rename the file
- Customize the template
- Save your work
- Open the spreadsheet application

2. Why is it important to rename and save your template after customising it?



Application-Based Questions

- 3. Ali wants to track his daily water intake and exercise routine.
 - Which template should he use in Google Sheets?
 - What columns might he need?

- 4. Sara is organising a group project with her classmates. She needs to assign tasks and track progress.
 - Which template would help her in Microsoft Excel?
 - How can she customise it?

5. You are planning a birthday party and want to manage the guest list, budget, and shopping list.



- Which template would you choose in Google Sheets?
- What sections would you add?

6.	What changes would you make to a 'Weekly Schedule' template to make it match your school week?
7.	How can using a template help you stay organised in school?

8. Look at the homework tracker a teacher has made to make notes of her students submissions.

Student Name	 Subject 	Assignment	× 6	Due Date 🗡	2	Completion Status	•	Notes	
Ali Shafi	Math	Chapter 3 Review		8/8/2025				Practice multiplication facts	
Bilal Hasan	Science	Plant Life Cycle Diagram		8/9/2025				Use colorful drawings	
Laiba Shafiq	English	Short Story Draft		8/10/2025				Focus on descriptive language	
Dawood Rehman	History	Famous Explorers Report		8/11/2025				Include at least 3 explorers	
Javeria Munaf	Art	Self-Portrait		8/12/2025				Use any medium you like	
Carmel Reilly	Music	Instrument Practice		8/13/2025				30 minutes daily	

Imagine you are creating a 'Homework Tracker' template for yourself. What features would you include? Fill out the sheet.

Data	Subject	Assignment		

9. Match the features with its function.

Term

Template

Customize

Spreadsheet

Column

Gallery

Definition Letter

A vertical section in a spreadsheet

A collection of pre-made templates

A digital tool used to organise data

To change something to suit your needs

A pre-designed layout for a specific task

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DATA HANDLING WITH GOOGLE SHEETS



Application-Based Questions

- 1. Your class wants to choose a place to go for a picnic. You're making a Google Form to help everyone vote. Make three questions that are:
 - Easy to understand and fair for everyone
 - Helpful for picking the best place
 - Do not ask for personal stuff like names

1

2

3

2. What kinds of questions should you not ask in a class survey, and why?

3. Study the table below and answer the questions.

Fruit	Number of Students
a. Apple	8
b. Banana	12
c. Mango	10
d. Orange	5
e. Grapes	7



a.	Which fruit is mo	ost popular?
b.	How many stude	nts chose bananas?
c.	What is the total	number of responses?
d.	Which fruit had	the fewest votes?
e.	Label the pie cha	rt correctly.
	blue	
	orange	
	green	
	sky blue	
	purple	
f.	If five kids accide your results?	entally filled out the form two times, how would that change

- 4. You want to find out what kinds of new books the school library should get. What's the best and easiest way to hear everyone's ideas?
 - a. Go to each classroom and ask every single student, one by one.
 - b. Create a fun online form that students can fill out on a computer.
 - c. Stand at the school entrance and shout the question to everyone.
 - d. Ask your three best friends and use their answers for the whole school.

- 5. Your class is making a time capsule. Someone says you should collect a Google Form from each student that asks for their full name, home address, and a secret wish. Why could that be a bad idea?
 - a. It might take too long to read all the answers.
 - b. The paper might get wrinkled inside the time capsule.
 - c. Someone might see the private info and use it in a way that's not safe.
 - d. The teacher might not be able to fit all the forms in the time capsule.
- 6. You are making a survey to find out what new sports equipment your class wants. How can you make sure it's fair and includes everyone?
 - a. Only show pictures of sports that the most popular students play.
 - b. Use big words and long sentences to sound smart.
 - c. Include lots of different sports and let students write their own ideas, too.
 - d. Make only the boys in class fill out the survey.
- 7. What happens when you link a Google Form to a Sheet?
 - a. It deletes the form.
 - b. It makes a chart.
 - c. It saves all the responses in the sheet.
 - d. It helps you look at answers quickly and sort them easily.
- 8. What is one thing Google Forms cannot do very well when used for surveys?
 - a. It collects responses right away.
 - b. It can be shared by email.
 - c. It might not show how someone feels or explain their thoughts in detail.
 - d. It lets people answer without saying who they are.



Spreadsheet Skills

- 9. You have a list of items with quantities and unit prices. How would you calculate the total cost for each item in Google Sheets?
 - a. Type the total manually
 - b. Use the formula =Quantity * Unit Price
 - c. Use Smart Fill to guess the total
 - d. Copy and paste from a calculator

10. You want to know how much money you spent in total. Which formula should you use in Google Sheets?

- a. =MAX() shows the biggest number.
- b. =SUM() adds up all the numbers.
- c. =COUNT() tells how many numbers there are.
- d. =AVERAGE() finds the middle value.

11. You want to mark all the items that cost more than Rs. 1000. Which tool in Google Sheets can do this for you automatically?

- a. Filter
- b. Conditional Formatting
- c. Smart Fill
- d. Pivot Table

12. You want to sort your purchases by date. Which tool should you use?

- a. Chart Wizard
- b. Sort Range
- c. SUM function
- d. Smart Cleanup

13. You used a tool to highlight items that cost more than Rs. 1000, but nothing got highlighted. What could be the reason? (Pick two)

- a. The numbers are written as text, not real numbers.
- b. The rule you used might be wrong.
- c. The sheet is locked.
- d. The chart type is wrong.

14. A student copied a formula but got the wrong answer. What might be the problem?

- a. The cell references are wrong.
- b. The formula is correct.
- c. AI made a mistake.
- d. The chart type doesn't match.

15. Smart Fill says 'Orange Juice' is a fruit. What should you do?

- a. Accept it without checking.
- b. Change it to 'Beverage' yourself.
- c. Delete the entry.
- d. Ask a friend to decide.

16. You have first names and last names in two columns. You want to join them into one. What's one good thing about using Smart Fill?

- a. It writes a story about each student.
- b. It quickly sees the pattern and fills in the rest.
- c. It makes the cells sparkle.
- d. It prints the list for you.

17. You asked AI to sort your favorite books by author's last name, but it sorted them by number of pages. What does this show about AI?

- a. It can read your mind.
- b. It's always right.
- c. It needs clear instructions and cannot guess what you want.
- d. It's too fast to stop.

18. You are using an AI tool to help you with your class's bake sale spreadsheet. It suggests a list of prices for each baked good. When should you double-check the prices given by the AI?

- a. Only when you have extra time and are feeling bored.
- b. When the total seems too high or too low.
- c. Only for the items you do not like.
- d. When the numbers are all the same.

19. Your teacher asks why it's important to learn how spreadsheet formulas work instead of letting AI do everything. What's the best reason?

- a. So you can teach the AI how to be smarter.
- b. So you can showoff to your friends.
- c. So you can find and fix mistakes and make sure the answers are correct.
- d. So you can tell the AI it did a bad job.

20. You are using a spreadsheet to help organise a food drive. How can you be careful and responsible?

- a. Use lots of bright colours and funny fonts to make it more fun.
- b. Always check your math and don't share private info about students who donated.
- c. Add pictures of all the food that was donated.
- d. Only use the spreadsheet on your phone and never on a computer.