📊 Class 5 Data Handling Worksheet

By Thinking Juggernaut

Subject: Mathematics   **Topic:** Data Handling   **Questions:** 18   **Time:** 45 mins

🎯 What is Data?

Data means information or facts that we collect. For example: How many pencils do you have? What is your favorite color? How many students are in your class? All these are examples of data!

When we collect data, we need to organize it so that it's easy to read and understand. We can use **tally marks**, **tables**, and **pictographs** to organize data.

📋 Ways to Show Data

1️⃣ Tally Marks

Tally marks are a quick way to count things. We make four straight lines and cross them with a fifth line.

$$I \quad = 1$$

$$II \quad = 2$$

$$III \quad = 3$$

$$IIII \quad = 4$$

$$\cancel{IIII} \quad = 5$$

H̶H̶H̶ I = 6

H̶H̶H̶

H̶H̶H̶ = 10

2️⃣ Pictographs (Picture Graphs)

A pictograph uses pictures to show data. Each picture stands for a number.

Example: Toys in a Shop

Toy	Number of Toys
Cars	🚗 🚗 🚗
Dolls	🎀 🎀 🎀 🎀 🎀
Balls	⚽ ⚽

Here, each picture = 1 toy

So, there are 3 cars, 5 dolls, and 2 balls!

3️⃣ Tables

Tables help us organize data in rows and columns.

Example: Favorite Fruits

Fruit	Number of Students
Apple 🍎	8
Banana 🍌	12
Mango 🥭	15

📝 Practice Questions

⭐ **Section A: Easy Questions (1 mark each)**

Q1. How many tally marks do we use to show the number 5?

Q2. Count these tally marks and write the number: ̶I̶I̶I̶I̶ III

Q3. Look at this pictograph:

Stars collected by children:

Riya: ⭐⭐⭐⭐

Amit: ⭐⭐⭐⭐⭐⭐

Each ⭐ = 1 star

a) How many stars did Riya collect?

b) How many stars did Amit collect?

Q4. Write tally marks for the number 7.

Q5. Complete this table by counting the tally marks:

Animal	Tally Marks	Number
Dogs 🐕	~~IIII~~ II	
Cats 🐈	~~IIII~~	
Birds 🐦	III	

Q6. Look at the pictograph showing flowers in a garden:

Flower	Number
Rose 🌹	🌹 🌹 🌹 🌹 🌹
Lily 🌸	🌸 🌸 🌸
Tulip 🌷	🌷 🌷 🌷 🌷

Each symbol = 1 flower

a) How many roses are there?

b) Which flower has the least number?

⭐⭐ **Section B: Medium Questions (2 marks each)**

Q7. A teacher asked students about their favorite colors. Here are the answers:

> Red, Blue, Red, Green, Blue, Red, Red, Yellow, Blue, Green

Make a tally chart for this data:

Color	Tally Marks	Number
Red		
Blue		
Green		
Yellow		

Q8. This pictograph shows ice creams sold on different days:

Day	Ice Creams Sold
Monday	🍦 🍦
Tuesday	🍦 🍦 🍦 🍦

Wednesday	🍦 🍦 🍦 🍦 🍦

Each 🍦 = 2 ice creams

a) How many ice creams were sold on Monday?

b) On which day were maximum ice creams sold?

c) How many ice creams were sold on Tuesday?

Q9. Count the following items and show them using tally marks in a table:

🍎 🍌 🍎 🍊 🍌 🍎 🍊 🍌 🍎 🍌 🍊 🍌

Fruit	Tally Marks	Number
Apple 🍎		
Banana 🍌		
Orange 🍊		

Q10. The table shows marks scored by 4 students:

Student	Marks
Priya	18
Rahul	20
Sneha	15

Rohan	19

a) Who scored the highest marks?

b) Who scored the lowest marks?

c) How many more marks did Rahul score than Sneha?

Q11. Make a pictograph for the following data about pets:

Dogs: 6, Cats: 4, Rabbits: 2

Use 🐾 to show 1 pet

⭐⭐⭐ Section C: Challenging Questions (2-3 marks each)

Q12. A fruit seller has these fruits in his cart:

Fruit	Number
Apples	24
Oranges	18
Bananas	30

a) Which fruit does he have the most?

b) Which fruit does he have the least?

c) How many fruits does he have in total?

d) Make a pictograph using 🍇 = 6 fruits

Q13. The pictograph shows the number of books read by students:

Student	Books Read
Ananya	📚 📚 📚
Karan	📚 📚 📚 📚 📚
Meera	📚 📚
Vivek	📚 📚 📚 📚

Each 📚 = 2 books

a) Who read the most books?

b) How many books did Ananya read?

c) How many more books did Vivek read than Meera?

d) What is the total number of books read by all students?

Q14. A class collected the following data about favorite sports:

Cricket: 10 students, Football: 8 students, Badminton: 6 students, Tennis: 4 students

a) Make a table to show this data
b) Which sport is most popular?
c) Which sport is least popular?
d) How many students were surveyed in total?

Q15. Count these items and answer:

a) Make a tally chart showing how many of each ball there are
b) Which ball is most common?
c) Make a pictograph for this data (use each ball symbol = 1 ball)

Q16. The table shows the number of chocolates in different boxes:

Box	Chocolates

Box A	15
Box B	20
Box C	12
Box D	18

a) Which box has the most chocolates?

b) Which box has the least chocolates?

c) How many total chocolates are there in all boxes?

d) If we eat 5 chocolates from Box B, how many will be left?

Q17. A shopkeeper sold these items on Monday:

Pens: 12, Pencils: 18, Erasers: 9, Sharpeners: 15

a) Organize this data in a table

b) Which item was sold the most?

c) Which item was sold the least?

d) Create a pictograph using ✏ = 3 items

Q18. Look at the data about trees planted by different classes:

Class	Trees Planted

Class 5A	25
Class 5B	30
Class 5C	20

a) Which class planted the most trees?

b) How many trees were planted by all three classes together?

c) How many more trees did Class 5B plant than Class 5C?

d) If Class 5A plants 10 more trees, how many will they have planted in total?

✅ Answer Key

Q1. We use 5 tally marks: I̶I̶I̶I̶

Q2. I̶I̶I̶I̶ III = 5 + 3 = 8

Q3.
a) Riya collected 4 stars
b) Amit collected 6 stars

Q4. I̶I̶I̶I̶ II

Q5.

Animal	Tally Marks	Number
Dogs 🐕	I̶I̶I̶I̶ II	7
Cats 🐈	I̶I̶I̶I̶	5

Birds 🐦	III	3

Q6.

a) There are 5 roses

b) Lily has the least number (3 lilies)

Q7.

Color	Tally Marks	Number
Red	IIII	4
Blue	III	3
Green	II	2
Yellow	I	1

Q8.

a) Monday: 2 × 2 = 4 ice creams

b) Wednesday (maximum ice creams sold)

c) Tuesday: 4 × 2 = 8 ice creams

Q9.

Fruit	Tally Marks	Number
Apple 🍎	IIII	4
Banana 🍌	IIII	5
Orange 🍊	III	3

Q10.

a) Rahul scored the highest marks (20)

b) Sneha scored the lowest marks (15)

c) Rahul - Sneha = 20 - 15 = 5 more marks

Q11.

Pet	Pictograph (🐾 = 1 pet)
Dogs	🐾 🐾 🐾 🐾 🐾 🐾
Cats	🐾 🐾 🐾 🐾
Rabbits	🐾 🐾

Q12.

a) Bananas (30)

b) Oranges (18)

c) Total = 24 + 18 + 30 = 72 fruits

d) Pictograph: Apples (🍇🍇🍇🍇), Oranges (🍇🍇🍇), Bananas (🍇🍇🍇🍇🍇)

Q13.

a) Karan read the most books (5 × 2 = 10 books)

b) Ananya read 3 × 2 = 6 books

c) Vivek - Meera = (4 × 2) - (2 × 2) = 8 - 4 = 4 more books

d) Total = 6 + 10 + 4 + 8 = 28 books

Q14.

a) Table:

Sport	Students
Cricket	10
Football	8
Badminton	6
Tennis	4

b) Cricket is most popular

c) Tennis is least popular

d) Total = 10 + 8 + 6 + 4 = 28 students

Q15.
a) Tally chart:

Ball	Tally	Number
⚽ Football	H̶H̶ II	7
🏀 Basketball	IIII	4
🏐 Volleyball	III	3

b) Football is most common (7 footballs)
c) Pictograph would show the symbols as counted

Q16.
a) Box B has the most chocolates (20)
b) Box C has the least chocolates (12)
c) Total = 15 + 20 + 12 + 18 = 65 chocolates
d) Box B = 20 - 5 = 15 chocolates left

Q17.
a) Table:

Item	Number
Pens	12
Pencils	18
Erasers	9
Sharpeners	15

b) Pencils were sold the most (18)
c) Erasers were sold the least (9)
d) Pictograph: Pens (✎✎✎✎), Pencils (✎✎✎✎✎✎), Erasers (✎✎✎), Sharpeners (✎✎✎✎✎)

Q18.
a) Class 5B planted the most trees (30)
b) Total = 25 + 30 + 20 = 75 trees
c) Class 5B - Class 5C = 30 - 20 = 10 more trees
d) Class 5A total = 25 + 10 = 35 trees

📊 Scoring Guide

Total Questions: 18 | Total Marks: 35

Score Range	Performance Level	What to Do Next
30-35	⭐⭐⭐ Excellent!	Fantastic! You understand data handling very well. You're ready to learn about bar graphs!
23-29	⭐⭐ Very Good!	Great job! Practice more with pictographs where symbols represent more than 1 item.
15-22	⭐ Good Effort!	Keep practicing! Focus on counting tally marks correctly. Remember: ~~IIII~~ = 5
0-14	Keep Trying!	Don't worry! Practice making tally marks every day. Count things around you and make pictographs.

📝 **Tips for Improvement:**

- **Practice tally marks:** Count toys, books, or pencils using tally marks
- **Read carefully:** Always check what each picture means in a pictograph
- **Count twice:** Make sure you didn't miss anything
- **Make tables neat:** Write clearly and draw neat lines
- **Use real examples:** Count your family members, pets, or friends and make tables

🎯 **Common Mistakes to Avoid:**

- ❌ Forgetting that ~~IIII~~ = 5, not 4
- ❌ Not checking what each picture represents
- ❌ Miscounting when there are many items
- ❌ Forgetting to add all items when finding total
- ❌ Not reading the question carefully

✨ **Awesome Work! You Did Great!** ✨

Keep practicing and have fun with data!

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