

GRADE 2

Data Handling & Graphs

Collect • Sort • Count • Represent • Read • Explain

Fruit	Number of Children
■ Apples	8
■ Bananas	5
■ Oranges	6
■ Strawberries	3

Name: _____ Date: _____

A colourful, practical pack for collecting data, making simple tables and graphs, and answering questions from data.

1. Data Detectives

Read the information and organise it carefully.

Favourite Fruit	Children
Apple	6
Banana	4
Orange	5
Grapes	3

Answer: Which fruit is most popular? _____ Which is least popular? _____

How many children chose apples and bananas altogether? _____

2. Tally Charts

Tally marks help us count data quickly. Complete the table.

Favourite Colour	Tally	Total
Blue		_____
Red		_____
Green		_____
Yellow		_____
Purple		_____

Think: Which colour has the greatest total? _____

Which colour has the smallest total? _____

3. Pictographs

In a pictograph, one picture can stand for more than one item.

Favourite Pets Key: ★ = 2 children

Pet	Children
Dog	★★★★★
Cat	★★★★
Fish	★★★
Rabbit	★★

1. How many children chose dogs? _____
2. How many children chose fish? _____
3. How many children chose cats and rabbits altogether? _____
4. How many more children chose dogs than rabbits? _____

4. Reading a Bar Graph

Use the table to complete the questions. Each square represents 1 child.

Reading	■ ■ ■ ■ ■ ■ ■ ■
Drawing	■ ■ ■ ■ ■
Music	■ ■ ■ ■
Sport	■ ■ ■ ■ ■ ■ ■ ■ ■

Which activity was chosen by the most children? _____

Which was chosen by the fewest? _____

How many children chose reading and music altogether? _____

5. Make Your Own Bar Graph

Use the data below. Draw bars on graph paper or colour one box for each child.

Favourite Game	Number of Children
Chess	4
Ludo	7
Snakes & Ladders	5
Carrom	3

Game / Number	1	2	3	4	5	6	7	8
Chess								
Ludo								
Snakes & Ladders								
Carrom								

Remember: Give your graph a title and label the numbers clearly.

6. Compare the Data

Look at the table and compare the numbers.

Day	Books Borrowed
Monday	8
Tuesday	12
Wednesday	7
Thursday	10
Friday	5

1. Which day had the most books borrowed? _____
2. Which day had the fewest? _____
3. How many more books were borrowed on Tuesday than Friday? _____
4. How many books were borrowed on Monday and Thursday altogether? _____
5. Were more books borrowed on Wednesday or Friday? _____

7. Sort the Data

Classify each item into the correct group.

Favourite Snack Survey

apple • banana • apple • orange • banana • apple • orange • banana • apple • orange • banana • apple

Snack	Tally	Total
Apple	_____	_____
Banana	_____	_____
Orange	_____	_____

Which snack is most popular? _____

How many children were surveyed altogether? _____

8. Ask Questions About Data

Use this pictograph to answer the questions.

Books Read This Month Key: ■ = 2 books

Child	Books
Ava	■■■
Ben	■■
Cara	■■■■
Dev	■

1. Who read the most books? _____
2. How many books did Cara read? _____
3. How many books did Ben and Dev read altogether? _____
4. How many more books did Cara read than Dev? _____
5. How many books were read by all four children altogether? _____

9. Data in Real Life

Collecting data helps us answer questions and make decisions.

1. Class Survey: Ask 10 people their favourite fruit. Record the answers using tally marks.

2. Weather Watch: Record whether the day is sunny, cloudy or rainy for one week.

3. Classroom Count: Count how many students bring a lunchbox, water bottle and school bag.

Category	Tally	Total
A	_____	_____
B	_____	_____
C	_____	_____

What did you find out?

10. Super Data Challenge

Show what you know!

1. A survey shows: Cats = 6, Dogs = 9, Fish = 4. How many children were surveyed?

2. How many more chose dogs than fish? _____

3. A pictograph uses ★ = 2 children. If you see 7 stars, how many children does that represent? _____

4. A class collected 5, 8, 6 and 7 cans on four days. Which day had the most? _____

5. Put these numbers in order from least to greatest: 9, 4, 7, 12, 5. _____

6. Create a question that could be answered from this data: Apples 5, Bananas 8, Oranges 3. _____

■ **Data Detective:** Explain why a graph can make information easier to understand.

11. Teacher Answer Key

Suggested answers are provided below. Open-ended activities may have different correct responses.

1. Data Detectives

Most popular: Apple. Least popular: Grapes. Apples + bananas = 10.

2. Tally Charts

Blue 4, Red 6, Green 3, Yellow 5, Purple 2. Greatest: Red. Smallest: Purple.

3. Pictographs

Dogs 10, Fish 6, Cats + rabbits = 12, Difference between dogs and rabbits = 6.

4. Reading a Bar Graph

Most: Sport. Fewest: Music. Reading + Music = 11.

5. Make Your Own Bar Graph

Bars should show Chess 4, Ludo 7, Snakes & Ladders 5, Carrom 3.

6. Compare the Data

Tuesday; Friday; 7 more; 18 altogether; Wednesday.

7. Sort the Data

Apple 5, Banana 4, Orange 3. Most popular: Apple. Total surveyed: 12.

8. Questions from Data

Cara; 8 books; Ben + Dev = 6; Cara read 6 more than Dev; total = 20 books.

9. Data in Real Life

Answers vary. Check that tallies and totals match the collected data.

10. Super Data Challenge

1) 19. 2) 5. 3) 14. 4) The day with 8 cans. 5) 4,5,7,9,12. 6) Answers vary.