

Year 4 Maths Assessment: Statistics and Data Handling

Learning objective: To interpret and present data using bar charts, pictograms, and tables, and to solve comparison, sum, and difference problems using information presented in scaled bar charts.

Read each question carefully. Use your ruler for drawing charts. Show your working out for all calculation questions.

Max the monkey is helping the BookFlik friends organise their library. He has collected data on the number of books read by each friend this month: Pip read 12 books, Nova read 8 books, Ellie read 15 books, and Finn read 10 books.

Word bank: bar chart · pictogram · frequency table · scale · interval · data · total · difference

1. Using the data from the passage, complete a frequency table showing how many books each friend read. (3 marks)

2. Max wants to draw a bar chart. If he uses a scale of 2, how many squares high would the bar for Pip's books be? (2 marks)

3. Calculate the total number of books read by the four friends. Show your working. (3 marks)

4. What is the difference between the number of books read by Ellie and the number of books read by Nova? (2 marks)

5. Zara decides to donate £5.50 for every 5 books read by the group. How much money does Zara donate in total based on the group's reading? (4 marks)

6. Max creates a pictogram where one symbol represents 2 books. How many symbols would he need to draw for Finn? Explain how you would represent an odd number, like 7, using this same scale. (6 marks)

7. Write a short report (5 sentences) describing the reading habits of the group. Include a comparison, the total, and a suggestion for how they could represent this data differently next month to make it easier to read. (5 marks)

Draw: Draw a bar chart on squared paper representing the book data: Pip (12), Nova (8), Ellie (15), and Finn (10). Remember to label your axes clearly.



Extension challenge: Total: /25