Mathematics · Grade 6

Data Handling

Term 1–4 | 7 questions | CAPS-aligned

TOTAL 41 MARKS

NAME AND SURNAME _____ CLASS _____ DATE _____

Instructions

1. Read all the questions carefully before you begin writing.
2. Answer all the questions on the question paper itself.
3. Show all your working where the question asks for it.
4. Write neatly. Work that cannot be read cannot be marked.
5. You may use a pencil and a ruler for drawings.
6. Calculators are not allowed.

Question	Content of the question	Marks	Obtained
1	Multiple choice	3	
2	Matching	4	
3	Pie chart	6	
4	Comparing two graphs	5	
5	Probability experiments	8	
6	Mode and median	6	
7	Tally table and pictograph	9	
	Total	**41**	
	Percentage		%

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1 Multiple choice

3 marks

Choose the correct answer and circle its letter.

PRACTICE EXAMPLE · DO THIS ONE TOGETHER FIRST

What is the mode of 3 ; 5 ; 5 ; 8 ?

a 3 b 5 c 8

5 occurs twice, more than any other number, so the answer is b. Circle the b.

This example does not count for marks. It only shows you how to answer.

1.1 Which kind of graph best shows how many books were borrowed on each day of the week? **(1)**

(a) A pie chart (b) A flow diagram (c) A bar graph

1.2 The value that occurs MOST often in a data set is called the: **(1)**

(a) mode (b) median (c) frequency

1.3 The MIDDLE value when the data is in order is called the: **(1)**

(a) mode (b) median (c) total

2 Matching

4 marks

Match the description in COLUMN A with the correct word in COLUMN B. Write only the LETTER. One word is left over.

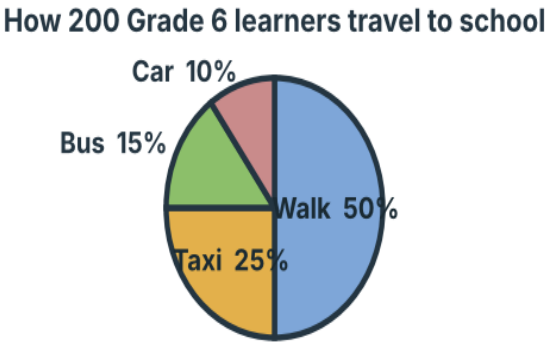
2.1 **(4)**

COLUMN A	COLUMN B	Answer
1. The value that occurs most often	A. Median	1 = _____
2. The middle value in an ordered data set	B. Probability	2 = _____
3. How many times a value appears in the data set	C. Mode	3 = _____
4. How likely something is to happen	D. Perimeter	4 = _____
	E. Frequency	

3 Pie chart

6 marks

3.1 The pie chart shows how 200 Grade 6 learners travel to school. a. How do most of the learners travel to school? b. How many learners walk? c. How many learners come by taxi? d. How many learners come by bus? e. What fraction of the learners come by car? f. Write ONE sentence that sums up what the pie chart shows. **(6)**



a. _____ b. _____

c. _____ d. _____

e. _____

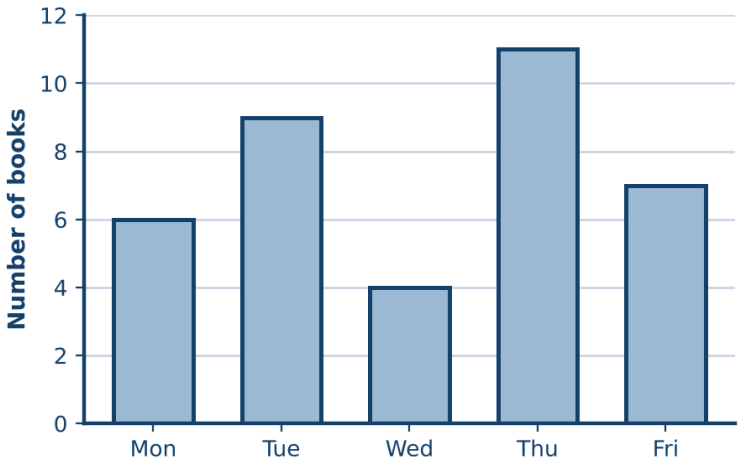
f. _____

4 Comparing two graphs

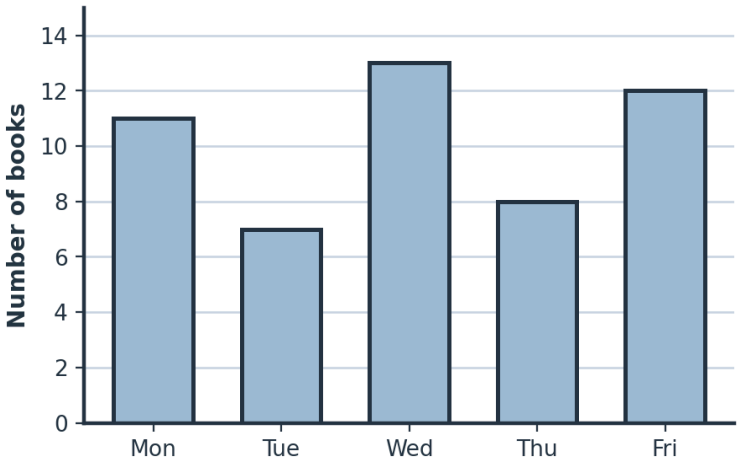
5 marks

4.1 Graph 1 shows the books Grade 6 borrowed in week 1 and Graph 2 the books borrowed in week 2. a. How many books were borrowed in each week? b. On which TWO days were fewer books borrowed in week 2 than in week 1? c. On which day was the increase from week 1 to week 2 the biggest? d. The librarian expects next week to be like week 2. About how many books should she plan for? **(5)**

Graph 1 – Week 1



Graph 2 – Week 2



a. Week 1: _____ Week 2: _____

b. _____

c. _____ d. _____

5 Probability experiments

8 marks

5.1 Thandi rolls a die 30 times. Her results are in the table. a. List all the possible outcomes of one roll. b. Which number came up most often? c. How many times did she roll an even number? **(3)**

Number	1	2	3	4	5	6
Times	4	6	5	3	7	5

a. _____

b. _____ c. _____

5.2 Thandi expected each number to come up exactly 5 times. Why are her results different? What would happen if she rolled the die many more times? **(2)**

_____

_____

5.3 Musa tosses a coin 50 times and gets heads 27 times. a. How many times did he get tails? b. Which outcome happened more often, and by how many? **(2)**

a. _____ b. _____

5.4 A spinner has 3 equal parts: red, blue and yellow. How many possible outcomes does one spin have? **(1)**

_____

_____

6 Mode and median

6 marks

6.1 Here is the number of books 9 learners read this year: 12 ; 7 ; 19 ; 4 ; 7 ; 11 ; 14 ; 7 ; 9. Write the numbers from smallest to largest. **(1)**

_____

_____

6.2 What is the MODE? **(1)**

_____

_____

6.3 What is the MEDIAN? Explain how you found it. **(2)**

_____

_____

6.4 How many learners read MORE than 10 books? Show how you counted. **(2)**

7 Tally table and pictograph

9 marks

7.1 The library counts how many books are borrowed each day. Count the tally marks and complete the table. **(4)**

Monday	𝍸 𝍸 ||||
Tuesday	𝍸 ||||
Wednesday	𝍸 𝍸 𝍸 ||
Thursday	𝍸 𝍸 ||

Day	Monday	Tuesday	Wednesday	Thursday
Number				

7.2 How many books were borrowed over the four days altogether, and on which day were the most books borrowed? **(2)**

7.3 The pictograph shows how many learners per grade are signed up at the library. Each ■ = 4 learners. Write the number of learners for each grade in the Number column. **(3)**

Grade	Learners	Number
Grade 4	■■■■■■■	
Grade 5	■■■■■	
Grade 6	■■■■■■■■	

Total **41 marks**



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