MeerkatSkool

PRACTICE TEST

Practice test · Term 1–4
Version 1.6 · 21 October 2026

# Mathematics · Grade 7

Data Handling

Term 1–4 | 8 questions | CAPS-aligned

TOTAL 51 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 | Stem-and-leaf display | 6 | |
| 4 | Data handling | 5 | |
| 5 | Probability | 7 | |
| 6 | Central tendency and range | 7 | |
| 7 | Sample, population and a frequency table | 8 | |
| 8 | Histograms, intervals and pie charts | 11 | |
| | **Total** | **51** | |
| | **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** A bag holds 3 red balls and 1 blue ball. You take out one ball without looking. What is the probability that it is blue? **(1)**

(a) $\frac{1}{4}$ (b) $\frac{1}{3}$ (c) $\frac{3}{4}$

**1.2** Two bar graphs show the same data. On graph A the vertical axis starts at 0; on graph B it starts at 90. On which graph do the differences between the bars look BIGGER? **(1)**

(a) Graph A (b) Graph B (c) They look the same

**1.3** A coin is tossed. What is the probability that it lands on heads? **(1)**

(a) $\frac{1}{4}$ (b) 1 (c) $\frac{1}{2}$

## 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. Range | 2 = _____ |
| 3. The total divided by the number of values | C. Mode | 3 = _____ |
| 4. The largest value minus the smallest value | D. Perimeter | 4 = _____ |
| | E. Mean | |

## 3 Stem-and-leaf display

6 marks

**3.1** The stem-and-leaf display shows the test marks (out of 70) of a group of learners. **(6)**

| Stem | Leaf |
|---|---|
| 3 | 2 5 8 |
| 4 | 0 1 4 4 7 |
| 5 | 2 3 6 9 |
| 6 | 0 5 8 |

Key: 3 | 2 means 32

a. How many learners wrote the test? _____

b. What are the lowest and the highest marks? _____

c. What is the RANGE? _____

d. What is the MEDIAN? _____

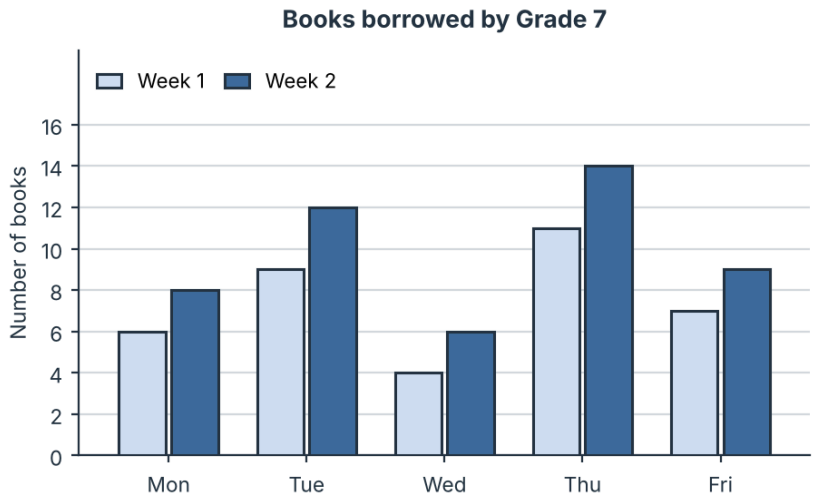
e. What is the MODE? _____

f. How many learners scored 50 or more? _____

## 4 Data handling

5 marks

**4.1** The double bar graph shows how many books Grade 7 borrowed each day in week 1 and in week 2. **(5)**




a. How many books were borrowed in week 2? _____

b. How many MORE books were borrowed in week 2 than in week 1? _____

c. On which day were the most books borrowed in BOTH weeks? _____

d. What is the MEDIAN of week 2? Is it higher or lower than the median of week 1?

_____

e. TRUE or FALSE: On every day of week 2 more books were borrowed than on the same day in week 1. _____

## 5 Probability

7 marks

**5.1** An ordinary pack of 52 playing cards has 4 suits (hearts, diamonds, clubs and spades) of 13 cards each. Hearts and diamonds are red; clubs and spades are black. Each suit has one ace. Calculate the chance of drawing at random: **(3)**

a. A red card: _____ b. A heart: _____ c. An ace: _____

**5.2** Explain the difference between an IMPOSSIBLE and a CERTAIN event. Give an example of each. **(2)**

**5.3** A spinner has 5 equal parts numbered 1 to 5. **(2)**

a. List all the possible outcomes: _____

b. What is the probability of spinning an even number? _____

## 6 Central tendency and range

7 marks

**6.1** Here are the test marks (out of 40) of 10 learners: 23 ; 14 ; 31 ; 10 ; 18 ; 25 ; 14 ; 20 ; 28 ; 17. Write the marks from smallest to largest. **(1)**

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

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

**6.4** Calculate the MEAN. **(2)**

**6.5** What is the RANGE? **(1)**

## 7 Sample, population and a frequency table

8 marks

**7.1** What is the difference between a POPULATION and a SAMPLE? **(2)**

**7.2** A learner wants to find out which sport the 800 learners at her school prefer. Write ONE yes/no question and ONE multiple-choice question (with at least three answer options) that she could use in her questionnaire. **(2)**

**7.3** A learner counts for 15 days how many apples fall from a tree each day: 3 ; 5 ; 2 ; 6 ; 4 ; 3 ; 5 ; 7 ; 2 ; 4 ; 6 ; 3 ; 5 ; 4 ; 3. **(4)**

| Apples per day | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| Number of days | | | | | | |

a. Complete the table above.

b. What is the mode? _____

c. How many apples fell altogether? _____

## 8 Histograms, intervals and pie charts

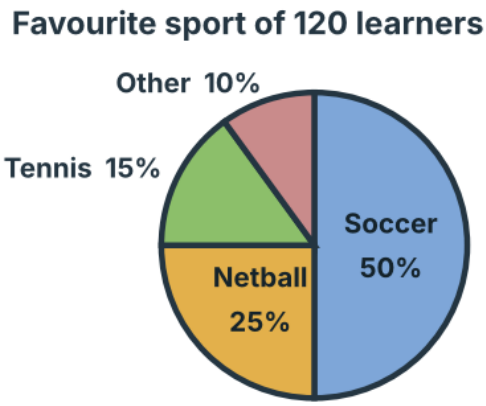
11 marks

**8.1** Twenty learners' test marks: 34 ; 41 ; 45 ; 52 ; 38 ; 47 ; 55 ; 29 ; 43 ; 50 ; 36 ; 48 ; 57 ; 33 ; 44 ; 51 ; 39 ; 46 ; 58 ; 42. Group the data into the intervals below. **(4)**

| Interval | 21–30 | 31–40 | 41–50 | 51–60 |
|---|---|---|---|---|
| Number of learners | | | | |

**8.2** Explain how a HISTOGRAM differs from an ordinary bar graph. **(3)**

**8.3** The pie chart shows which sport 120 learners prefer. **(4)**




a. Which sport is the most popular? _____

b. How many learners prefer that sport? _____

c. How many prefer netball? _____

d. How many prefer tennis? _____

**Total** **51 marks**



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