EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
31	50 minutes	3

Name: _____ Class: _____

Date: _____

MARK _____ / 31

INSTRUCTIONS AND INFORMATION

1. Answer **ALL** the questions in this question paper.
2. Answer QUESTION 1 by **circling** the letter (A–D) in the answer grid at the end of that section.
3. Show **ALL** calculations clearly.
4. Show all units where applicable.
5. Number the answers correctly according to the numbering system used in this question paper.
6. A non-programmable calculator may be used, unless stated otherwise.
7. Write neatly and legibly.

QUESTION 1 [10 MARKS]

Four options are given as possible answers to the following questions. Choose the correct answer and circle the letter (A–D) in the grid at the end of this section. If you want to change your choice, put a cross through the wrong letter and circle your new choice.

1.1 For the data 3 ; 5 ; 5 ; 8 ; 9, the MODE is ... (1)

A) 8 **B)** 6
C) 9 **D)** 5

1.2 For the same data, the MEAN is ... (1)

A) 6 **B)** 8
C) 5 **D)** 30

1.3 For the same data, the MEDIAN is ... (1)

A) 3 **B)** 6
C) 8 **D)** 5

1.4 For the same data, the RANGE is ... (1)

A) 5 **B)** 6
C) 9 **D)** 3

1.5 The MEDIAN of an EVEN number of values is ... (1)

A) the mean of the two middle values **B)** the largest minus the smallest
C) the most common value **D)** the middle value

1.6 Six learners score 4 ; 6 ; 6 ; 7 ; 9 ; 10. The median is ... (1)

A) 7 **B)** 8
C) 6,5 **D)** 6

1.7 Which measure is MOST affected by one very large value? (1)

A) the median **B)** the mean

C) the mode **D)** none of them

1.8 The mean of five numbers is 12. Their TOTAL is ... (1)

A) 60 **B)** 17

C) 2,4 **D)** 12

1.9 A sixth number, 18, is added to those five. The new mean is ... (1)

A) 12 **B)** 15

C) 13 **D)** 78

1.10 If every value in a data set is increased by 5, the RANGE ... (1)

A) doubles **B)** stays the same

C) increases by 5 **D)** increases by 10

ANSWER GRID — CIRCLE YOUR ANSWERS FOR QUESTION 1

1.1	A	B	C	D
1.2	A	B	C	D
1.3	A	B	C	D
1.4	A	B	C	D
1.5	A	B	C	D
1.6	A	B	C	D
1.7	A	B	C	D
1.8	A	B	C	D
1.9	A	B	C	D
1.10	A	B	C	D

QUESTION 2 [11 MARKS]

The number of books read in a year by each of seven learners is: 12 ; 15 ; 15 ; 18 ; 20 ; 22 ; 24

2.1 Calculate the mean number of books read. (3)

2.2 Write down the median and the mode, and explain why they are not the same. **(4)**

2.3 An eighth learner, who read 46 books, joins the group. Calculate the new mean and comment on the effect of this value. **(4)**

QUESTION 3 [10 MARKS]

Answer the following.

3.1 The mean of five numbers is 24. Four of the numbers are 18 ; 22 ; 25 and 31. Calculate the fifth number. **(4)**

3.2 In a small company most workers earn about R8 000 a month, but the owner earns R150 000. State which of the mean or the median better describes a typical salary, and give a reason. **(3)**

3.3 The range of a set of five numbers is 18 and the smallest number is 7. Write down the largest number, and explain what the range tells you. **(3)**

TOTAL: 31 marks

This question paper consists of 3 questions.

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