Monyetla Bursary Project

Grade 11

Lesson 4: Data Handling Questions

QUESTION 1:

1.1 Table 3 below indicates the BMI and classification of weight status for individuals.

TABLE 3: BMI and weight status for individuals

BMI (kg/m²)	Classification of weight status
below 18,5	Underweight
18,5 – 24,99	Normal
25 – 29,99	Overweight
30 and higher	Obese

Use the information in Table 3 to answer the questions that follow.

1.1.1 Determine the BMI (in kg/m^2) and weight status of a girl with a mass of 65 kg and a (5) height of 142 cm.

The following formula may be used:

$$BMI = \frac{weight}{height in m^2}$$

1.1.2 What advice might a doctor give to a child with the BMI in 3.1.1? (2)

QUESTION 2:

2.1 A visitor to the Kruger Park recorded the following numbers of impala seen in 15 days:

25 80 34 26 21 65 28 21 39 21 30 34 21 28 40

- 2.1.1 Determine the median number of impala seen.
- 2.1.2 Calculate the mean number of impala seen in 15 days. (3)
- 2.1.3 Determine the range of the number of impala seen. (2)

QUESTION 3:

3.1 The Grade 11A class was given an English Language test out of 100 last week. These were the results in ranked order:

23	41	42	50	50	51	54	55	56	57	
60	61	65	66	66	67	68	69	70	70	
70	72	74	74	76	79	82	85	86	88	

(3)

(2)

(2)

(2)

- 3.1.1 Calculate the mean mark.
- 3.1.2 Find the mode.

(2)

- 3.1.3 Calculate the median mark.
- 3.2 Which measure of central tendency in Question 3.1 tells you the most about how the class performed in the test? Give a reason for your answer.
- 3.3 Calculate the range of the test marks. (2)