

MDM 4U1
UNIT 4: CRITICAL ANALYSIS OF DATA – TIPS ASSIGNMENT

THINKING: 17



Name: _____

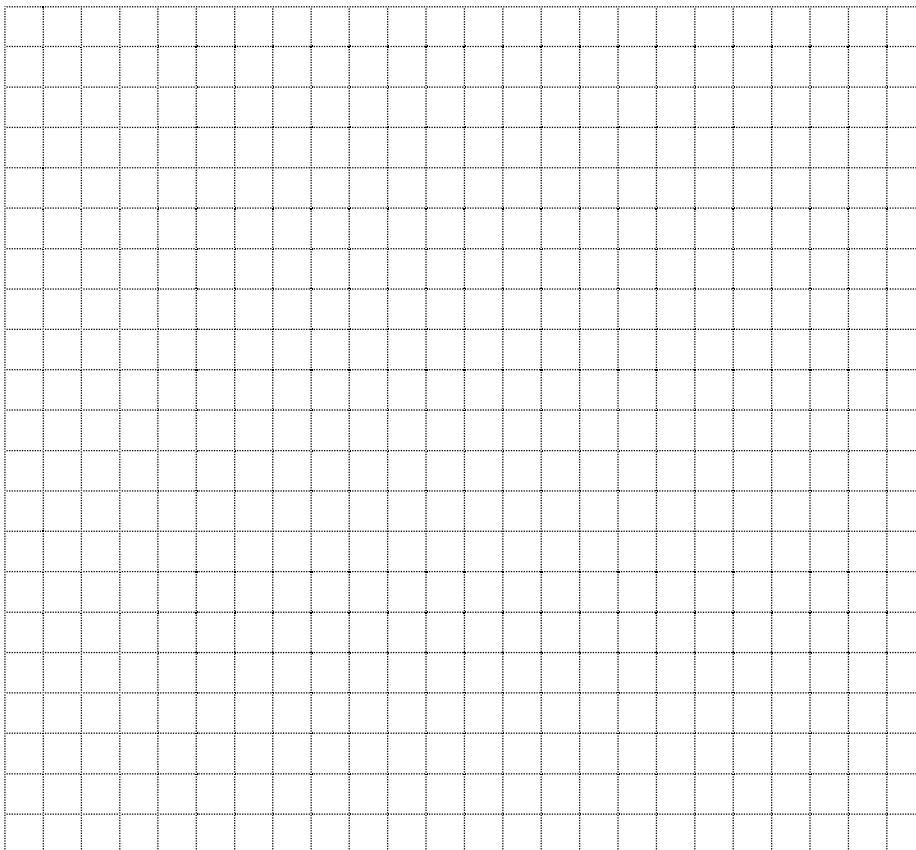
THE FOLLOWING QUESTION IS DIRECTLY RELATED TO THE UNIT YOU ARE CURRENTLY WORKING IN, THOUGH THEY MAY REQUIRE MORE THOUGHT THAN THOSE YOU HAVE ALREADY ENCOUNTERED. PLEASE PROVIDE A FULL, POLISHED SOLUTION IN THE SPACE PROVIDED. *SHOW ALL WORK TO GUARANTEE FULL MARKS*

The data set to the right compares mean word length and recommended age from a collection of children's books.

TASKS:

1. Graph the data on the grid provided. Be sure to include all relevant labels & scales. <3 marks>
2. a) Approximate the trend using a median-median line. <4 marks>
 b) determine the equation of the median-median line. <3 marks>

Recommended Age	Mean Word Length
4	3.5
6	5.5
5	4.6
6	5.0
7	5.2
9	6.5
8	6.1
5	4.9



3. Using the Median-Median line from the previous question, predict the mean word length in a book recommended for someone your own age: _____ <1 mark>
Is this prediction accurate? Explain: <2 marks>

4. Determine the appropriate age level for the following passage, show your work: <4 marks>

It was a lazy sort of day in Bear Country. The air was so still that the leaves on the big tree house where the Bear family lived were hardly rustling. Except in the beehive, where the bees were always busy, nothing much seemed to be happening. It was the sort of day that sometimes leads to mischief.