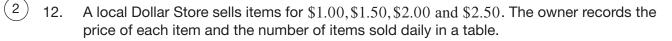## Lesson 1 Assignment

Measures of Central Tendency – Mean, Median, and Mode – Part B

Work slowly and carefully. If you are having difficulty, go back and review the appropriate *Lesson*.

For full marks, show all calculations, steps, and/or explain your answers.

Total marks: 8

(2) 12. A local Dollar Store sells items for $1.00, $1.50, $2.00 and $2.50. The owner records the price of each item and the number of items sold daily in a table.

Price	Number of Items Sold
$1.00	120
$1.50	95
$2.00	150
$2.50	10

Which measure of central tendency is recommended to determine the most popular pricing category? Explain.

(2) 13. The table shows the number of hours per week that Shamus has worked at his part-time job. Which measure of central tendency is most representative of the average number of hours that Shamus works per week? Explain.

Week	Hours
1	12
2	9
3	13
4	10
5	13
6	15
7	10

(2) 14. The owner of a café was interested in the age of her customers in order to plan a marketing campaign. One day, she collected data on the customer's ages.

The ages were: $42,\ 36,\ 45,\ 27,\ 73,\ 40,\ 32,\ 35,\ 41,\ 38.$

Which measure of central tendency is most representative of the average age of the customers?

(2) 15. Joel cycled for three consecutive days. The distance in kilometres that he travelled each day are: $42\ \text{km}, 36\ \text{km},$ and $45\ \text{km}.$

Joel wants to have a mean of at least 40 kilometres per day. What is the minimum number of kilometres he needs to ride on the fourth day to reach his goal?