Section 3.2 Worksheet – Measures of Central Tendency

MDM4U
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1) Use technology to calculate the mean, median, and mode for the following samples. Then use the relative location of the mean, median, and mode to describe the sets as symmetric, skewed left, or skewed right.

a) Marks on a set of tests {66, 65, 72, 78, 93, 70, 68, 64}
b) Monthly rent ($) {625, 750, 800, 650, 725, 850, 625, 650, 625, 1250}
c) Points scored by a basketball player {12, 15, 8, 12, 15, 10, 3, 14, 15}

2) Here is a sample of Hakim's Shoes reported sales results:

Size	4	5	6	7	8	9	10
Frequency	5	11	15	18	19	13	7

a) Calculate the mean, median, and mode shoe size by hand.
b) Which measure of central tendency is most appropriate? Why?

3) A pair of dice is rolled numerous times. The sum of the dice, as well as the frequency, is recorded. Calculate the mean, median, and mode for the results using technology.

Sum	2	3	4	5	6	7	8	9	10	11	12
Frequency	2	3	5	7	9	11	8	7	4	2	1

4) Jasmine records the dates on 125 pennies. Find the mean date of the sample by hand. Check your answer using technology.

Date	1990 --- 1999	1980 ---1989	1970 --- 1979	1960 --- 1969
Frequency	56	42	21	6

5) A student's term mark is 75. The term mark counts for 70% of the final mark. What mark must the student achieve on the exam to earn a final mark of…

a) 70
b) 70

6) The following table shows the salary structure of Statsville Plush Toys, Inc. Assume that salaries exactly on an interval boundary have been placed in the higher interval. Calculate the mean salary by hand. Check your answer using technology.

Salary Range ($000)	Number of Employees, f
20 – 30	12
30 – 40	24
40 – 50	32
50 – 60	19
60 – 70	9
70 – 80	3
80 – 90	0
90 – 100	1