

Mean, Median and Mode

Directions: Answer these questions in your notebook. Show your working.

1. These are the amount of change in the pockets of a class of students in Rockhampton. Only coins were counted, not bills.

0 0 0 0 30 50 90 90 120 150 155 170 210 230 270 270 340 560 570

- Find the mean amount of change.
 - Find the median amount of change.
 - What is the mode?
 - Gather similar data from your own class, and find the mean.
 - Find the median amount of change from your class.
 - Which class had more change in their pockets, on average?
2. These are the number of letters in the surnames of students from a class of students in Prospect High School, Mt. Prospect, Illinois.

7 7 7 5 7 6 7 5 4 5 6 5 5 5 5 6 9 6 7 5 6 4
8 7 11 6 4 8 7 4 6 6 8 7 8 5

- Find the mean number of letters in these surnames.
 - Find the median number of letters in these surnames.
 - What is the mode?
 - Find the mean number of letters in the surnames of the students in your class.
 - Find the median number of letters in the surnames of the students in your class.
 - Which class has the longer surnames, on average? By how much?
3. The data below are the weights in kilograms of the crews participating in a rowing race between Oxford and Cambridge.

Cambridge	85.7	83.2	88.4	84.1	97.3	92.5	84.6	81.1	49.5
Oxford	84.6	83.9	92.7	83.9	88.9	92.0	79.1	83.2	49.8

- Find the mean weight of each team.
 - Find the median weight of each team.
 - Which measure of the centre, the mean or the median, is the best? Defend your answer.
4. In my street are 6 houses. The house price of each is given below.

Street Number	12	13	14	15	16	17
Value	\$150 000	\$160 000	\$100 000	\$120 000	\$150 000	\$2 000 000

- Find the mean house price.
- Find the median house price.
- Which measure of the centre, the mean or the median, is the best? Defend your answer.