

Each WA is worth 10 points. Work right on these pages, then scan and upload or give to me in print. You can work together or see a tutor, but NEVER copy. This WA is for a grade, so dishonesty or cutting corners may earn a 0 for all involved.

1. Consider this list of sales amounts over a 20-day period (in order left to right, from first day to last):

\$150 \$200 \$180 \$210 \$150 \$120 \$180 \$150 \$200 \$90
\$140 \$120 \$180 \$200 \$150 \$160 \$100 \$130 \$210 \$160

(a) [2.5 pts] Draw and correctly label a dot plot for this data.

(b) [2.5 pts] Draw and correctly label a histogram for this data, using \$50-\$99 as one range.

2. [1 pt - 0.5 each] Refer to the graph attached as page 3 in answering the questions below.

(a) Name two items that have a combined amount spent of about \$800.

(b) Does rent take up more than $1/2$, less than $1/2$, or right around $1/2$ of the monthly budget?

3. [4 pts - 1 each] For each SEPARATE task below, make up scores limited to the range 0 through 100 that will satisfy the conditions. If not possible, explain why, referring CLEARLY to features of mean, median, mode, range that conflict here. ("You can't because 30 is too small" is NOT clear).

(a) Six scores with a mean of 50 and two modes

(b) Six scores with a median of 50 and two modes

(c) Five scores with a mean of 80, which changes to 50 when a sixth score of 0 is included

(d) Five scores with a median of 80, but that median changes to 50 when a sixth score of 0 is included

Monthly Budget

