

# Algebra

## A136-Measures of Central Tendency and Dispersion



<p><b>1.</b> Carly has grades of 86, 63 and 76 on three math tests. What grade must she receive on the next test to have an average of 80 for the 4 tests?</p> <p>A) 100                      C) 80 B) 95                         D) 97</p>	<p><b>2.</b> A storeowner decided to keep a tally of all the colors of t-shirts in his store. Which measure of central tendency should he use to determine the most popular shirt color?</p> <p>A) Mean                      C) Mode B) Range                     D) Minimum</p>												
<p><b>3.</b> 9, 8, 5, 9, 12, 8, 7, 6, 5, 9, 12, 6</p> <p>What is the mean of the values above?</p> <p>A) 8                             C) 6 B) 12                          D) 7</p>	<p><b>4.</b> A teacher recorded her students' quiz grades (score out of 20) in the table below.</p> <table border="1" data-bbox="857 554 1442 632"><tr><td>Score</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr><tr><td>Frequency</td><td>7</td><td>8</td><td>10</td><td></td><td>6</td></tr></table> <p>If the average score was 18, how many of her students received a score of 19?</p> <p>A) 7                              C) 9 B) 8                              D) 10</p>	Score	16	17	18	19	20	Frequency	7	8	10		6
Score	16	17	18	19	20								
Frequency	7	8	10		6								
<p><b>5.</b> Which of the following data sets contain an outlier?</p> <p>A) {2,3,3,4,5,20}            C) {20,30,40,10,40, 20} B) {1,2,3,4,5,4,2,1}        D) {16,16,18,17,15, 19}</p>	<p><b>6.</b> A teacher recorded the following scores on a test: 23, 70, 75, 76, 77,80, 82,84, 86, 89, 90,92, 93, 95, 97</p> <p>Which central tendency measurement should the teacher use in order to get a more accurate depiction on how the students did?</p> <p>A) Median                      C) Mode B) Range                        D) Mean</p>												
<p><b>7.</b> The data table below displays the frequency of scores on a 10 point test. Find the median score.</p> <table border="1" data-bbox="165 1262 797 1339"><tr><td>Score</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>Frequency</td><td>2</td><td>4</td><td>10</td><td>8</td><td>1</td></tr></table> <p>A) 7.5                            C) 9 B) 8                                D) 10</p>	Score	6	7	8	9	10	Frequency	2	4	10	8	1	<p><b>8.</b> For the data set below: {3, 4, 8, 2, 7, 5, 5, 1, 3, 6}</p> <p>Find the range.</p> <p>A) 6                              C) 7 B) 8                              D) 4</p>
Score	6	7	8	9	10								
Frequency	2	4	10	8	1								
<p><b>9.</b> In the summer, the average amount earned in a day by 120 juniors was \$50, while 150 seniors averaged \$75, what were the average earnings in one day for the combined group?</p> <p>A) \$65.47                      C) \$62.50 B) \$63.89                      D) \$60.36</p>	<p><b>10.</b> Based on the data set below, {3, 6, 12, 15, 12, 3, 6, 17, 18, 2, 3, 17, 13, 12, 15, 3}</p> <p>What is the mode?</p> <p>A) 12                             C) 3 B) 15                             D) 17</p>												