

Section 12.5 Extra Practice

1. For each situation, match the best measure of central tendency along with the reason. Reasons might include
- median, because a quick estimate is needed
 - mode, because all that matters is the most frequent number
 - mean, because all of the values need to be included, except perhaps the outlier

Situation	Best Measure of Central Tendency	Reason														
<p>a) A teacher determines a student's grade from weekly quizzes. The quizzes are out of 10. The student scored 3, 10, 5, 3.5, and 3.5.</p>																
<p>b) A class is surveyed to find out the most popular chocolate bar. The data table shows the following:</p> <table border="1" data-bbox="300 1018 841 1354"> <thead> <tr> <th>Chocolate Bar</th> <th>Number of Students</th> </tr> </thead> <tbody> <tr> <td>Alpha Bar</td> <td>10</td> </tr> <tr> <td>Choco-Cream</td> <td>3</td> </tr> <tr> <td>Mocha Bite</td> <td>8</td> </tr> <tr> <td>Sweet Snack</td> <td>4</td> </tr> <tr> <td>Crackle Crunch</td> <td>2</td> </tr> <tr> <td>Lots-o-Choc</td> <td>5</td> </tr> </tbody> </table>	Chocolate Bar	Number of Students	Alpha Bar	10	Choco-Cream	3	Mocha Bite	8	Sweet Snack	4	Crackle Crunch	2	Lots-o-Choc	5		
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<p>c) A job applicant wants to have an estimate of how much he will earn in the company. A list of salaries shows the following amounts: \$56 000, \$23 000, \$55 000, \$58 000, \$35 000, \$45 000, \$166 000, \$42 000.</p>																

2. What are the median and mean for #1a) and c) above? Show your work.

a) median = _____
 mean = _____

c) median = _____
 mean = _____