

**In-Video Quiz Questions for
Unit 1: Part 2 – (4) Robust statistics**

(01:26)

1. You have collected annual salary data from a large company with many employees who make below \$100,000 per year, a fewer number of managers with salaries between \$100,000 - \$150,000, and a few high-level executives whose salaries can go beyond \$1 million per year. Determine what shape the distribution of these salaries would be expected to follow, and accordingly decide whether the mean or the median would best represent a typical salary for an employee working at this company.

- (a) symmetric, mean is a better measure of typical salary
- (b) symmetric, median is a better measure of typical salary
- (c) right skewed, mean is a better measure of typical salary
- (d) right skewed, median is a better measure of typical salary
- (e) left skewed, mean is a better measure of typical salary
- (f) left skewed, median is a better measure of typical salary

Answers:

1. d

Explanation: Majority of the distribution is below \$100,000 and as the salary increases the number of employees who make as high as salary decreases, hence giving the distribution a long tail on the right (right skewed). For skewed distributions the median is a better measure of the typical observation.