





- 2.** You have been tasked with selecting an intern for your company. You have been instructed to hire the person with the best performance in their business degree. However, you do not have access to the rankings of candidates within their classes. You are also aware that the business schools from which the candidates graduated have very different grading systems, so a higher grade may not imply better performance. Using the information below, standardize the candidates' grades to allow for a direct comparison and determine which candidate you will select.

Candidate A: Grade = 3.3

School A: Mean Grade = 3.2 (SD = 0.5)

Candidate B: Grade = 3.6

School B: Mean Grade = 3.7 (SD = 0.3)

Candidate C: Grade = 2.9

School C: Mean Grade = 3.5 (SD = 0.4)

**Z-scores:**

**A**  $Z = \frac{X-M}{SD} =$

**B**  $Z = \frac{X-M}{SD} =$

**C**  $Z = \frac{X-M}{SD} =$

The best candidate is: \_\_\_\_\_

- 3.** Suppose you come across a business school that ranks their candidates by assigning them Z-scores, but you need to include in your candidate selection report their actual grade. You look up the mean grade and the standard deviation for that candidate's graduating class and find out it is Mean = 3.0 (SD = 0.8). If that candidate's Z-score is -0.5, what was her/his actual grade?

$X = (Z)(SD) + M =$

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