

## ISTA 350 Normal Distribution Worksheet

Name:

During a (fictional) field survey, the weights of 10 adult Yellow Warblers were recorded in grams: 9.2, 9.0, 9.7, 8.1, 10.9, 9.6, 9.8, 9.7, 9.5, 9.5. Calculate the mean, median, and standard deviation.

Assume that Yellow Warbler weights are normally distributed (recall the 68-95-99.7 rule). What is the probability that an 11<sup>th</sup> adult Yellow Warbler caught in the wild has a weight > 10.2 grams? Exactly 9.5 grams? Less than 9.5 grams? Less than 8.8 grams? Less than 8.1 grams?