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AP STATISTICS – MS. KLIMCZUK

Chapter 17: Just Checking Questions

1. Human gestation times have a mean of about 266 days with a standard deviation of about 10 days. If we record the gestation times of a sample of 100 women, do we know that a histogram of the times will be well modeled by a normal model? Explain.

1. Suppose we look at the *average* gestation times for a sample of 100 women. If we imagined all the possible random samples of 100 women we could take and looked at the histogram of all the sample means, what shape would it have? Explain.

Where would the center of that histogram be?

What would be the standard deviation of that histogram?