Readability of	Magazine Advertisements	Name:
ads. Using sta	•	er advertisement as a measure of readability for magazine over what advertisers believe is the best number of
Part 1: Definir	ng Deviation	
Page 1.3: Stor	e the mean of the column sentence as	s mu . Type on calculator screen: mu :=mean(sentence)
	What is the value stored for mean?	
Page 1.5/1.6: of deviation sh		and sentence . Record below what you believe the definiti
Part 2: Definir	ng and Evaluating Variance	
Page 1.8: Desc	cribe the shape of the curve formed b	/ sentence vs dev2.
What is the re	gression equation?	
Page 1.9: Wha	t is the population variance found? _	

Part 3: Defining and Calculating Standard Deviation

Part 4: Empirical Rule

Sketch the Dot Plot for the number of sentences.			
b) Draw a vertical line marking the mean.			
c) What is the mean + standard deviation?			
d) What is the mean – standard deviation?			
e) Draw a vertical line marking the mean + standard deviation and mean – standard deviation.			
f) How many points fall within (mean – standard deviation, mean + standard deviation)?			
g) What percent of the total data points falls within 1 standard deviation of the mean?			
h) How does this relate to the Empirical Rule that 68% of the data lies within 1 standard deviation of the mean?			
i) What is the mean + 2*standard deviation?			
i) What is the mean – 2*standard deviation?			
k) Draw a vertical line marking the mean + 2*standard deviation and mean – 2*standard deviation.			
) How many points fall within (mean – 2*standard deviation, mean + 2*standard deviation)?			
m) What percent of the total data points falls within 2 standard deviations of the mean?			
n) How does this relate to the Empirical Rule that 95% of the data lies within 2 standard deviations of the mean?			