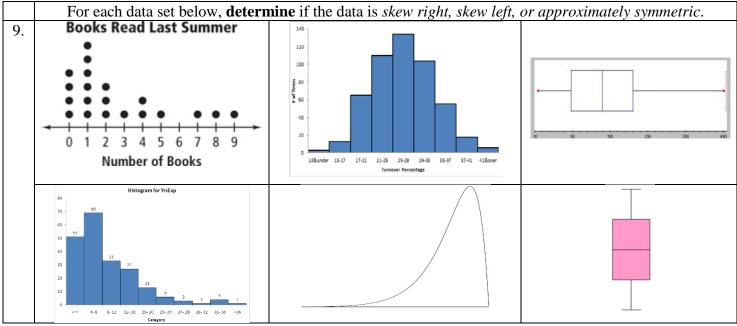
Algebra 1 – Unit 4A Assessment Practice Name					_ Date	Period
Part	A: Interpreting Categor					
	Answer the questions completely.					
	Alexander is conducting a survey and recorded ice-cream flavor preference and the gender of each					
	student. Alexander's empty two-way frequency table is below.					
	Preferred Ice-Cream Flavor					
	3.6.1	Chocolate	Vanilla	Other		
	Male					
	Female					
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1.	Complete the two-way frequency table using the following data. Alexander surveyed 92 males and found that 33 of them preferred chocolate, 15 preferred vanilla, and the remainder preferred other.					
	Alexander surveyed 107 females, of which 16 preferred chocolate, 49 preferred vanilla, and the					
	remainder preferred other.					
2.	A) Find the percentage of the students that are girls who like chocolate.					
	B) Find the percent of students that like vanilla.C) Given a student is Female, find the probability that they prefer other.D) Given a student likes chocolate, find the probability that they male.					
3.	A) Alex would like to know if gender influences ice-cream preference. Determine if it would be more appropriate to create a row-conditional relative frequency table or a column-conditional relative frequency table to help answer the question. Create the more appropriate table.					
-	B) State the ice-cream flavor that Females are more likely to prefer. Justify your answer using your findings.					

Part B: Comparing One Variable Statistics [S-ID.A.2]

Answer the questions completely. You are comparing the ACT scores of students in two rival Academic Decathlon Teams. Team Alpha (ACT scores): 20, 20, 20, 22, 24, 26, 26, 28, 32, 33 Team Epsilon (ACT scores): 15, 18, 20, 27, 28, 30, 30, 32, 33, 34 **Construct** a dot plot for Team Alpha. 4. **Construct** a histogram for Team Epsilon. 5. **Construct** a box plot for each club below for the purpose of comparison. Team Alpha: 10 15 20 30 35 Team Epsilon: **State** and **compare** the measures of center for the teams. Make sure to include both measures of center. 7. **State** and **compare** the measures of spread for the teams. Make sure to include all three measures. 8.

Part C: Skewness [S-ID.A.2]



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