| | 1 0 0 | | | | | |
|----|---|-------------------------|------------------------|--------------------------|-----------------------|--|
| | 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 | | | | | |
| | | Chocolate | Vanilla | Other | | |
| | Male | | | | | |
| | Female | | | | | |
| | | | | | | |
| 1 | Complete the two-w | av frequency table us | ing the following de | ta Alevander surve | wed 97 males and | |
| 1. | 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 sheeplate | | | | | |
| ۷. | A) Finu the percentage of the students that are girls who like chocolate. | | | | | |
| | | | | | | |
| | | | | | | |
| | D) Find the noncent of students that like youille | | | | | |
| | B) Find the percent of students that like vanilla. | | | | | |
| | | | | | | |
| | | | | | | |
| | () Civen a student is Female. find the probability that they profer other | | | | | |
| | 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 | | | | | |
| | D) Given a sudent likes chocolate, mu the probability that they male. | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 3 | A) Alex would like to | know if gender infl | uences ice-cream nr | eference Datarmin | e if it would be more | |
| 5. | A) Alex would like to know il gender influences ice-cream preference. Determine il it would be more appropriate to create a row-conditional relative frequency table or a column conditional relative | | | | tional relative | |
| | 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 | | | | | |
| | inequency table to he | ip allower the question | | appropriate table. | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | P) State the ice areas | n flovor that Eamola | a ara mara litatu ta a | motor Instity your | ongwar liging your | |
| | findings | in navoi ulat remale | s are more likely to p | JIGIGI. JUSUIY YOUR | answer using your | |
| | munigs. | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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, 22, 24, 26, 26, 28, 32, 33 | | | | | |
| | Team Epsilon (ACT scores): 15, 18, 20, 27, 28, 30, 30, 32, 33, 34 | | | | | |
| 4. | Construct a dot plot for Team Alpha. | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 5 | Construct a histogram for Team Ensilon | | | | | |
| 5. | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 6. | Construct a box plot for each club below for the purpose of comparison. | | | | | |
| | Team Alpha: | | | | | |
| | | | | | | |
| | | | | | | |
| | 10 15 20 25 30 35 40 | | | | | |
| | | | | | | |
| | Team Epsilon: | | | | | |
| 7. | State and compare the measures of center for the teams. Make sure to include both measures of center. | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 8. | State and compare the measures of spread for the teams. Make sure to include all three measures. | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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



Tracy Unified School District – Algebra 1 – Updated July 10, 2018 – Page 2