TEKS Data Analysis—5.9.C
MATHEMATICAL PROCESSES 5.1.A, 5.1.F

Name _____

15.2 Analyze Frequency Tables

Coach Michaels plans the annual school field day. Students vote for their favorite event and he records the results in a frequency table. Use the frequency table for 1–4.

Field Day Events	
Events	Frequency
Scooter race	62
Relay race	11
Cone toss	13
Obstacle course	52
Water balloon toss	26

1. Which event received half the number of votes as water balloon toss? Which event received twice as many votes as water balloon toss?

_____

2. Which two events combined received fewer votes than water balloon toss?

3. Which three events combined received fewer votes than scooter race?

4. Which event do you think Coach Michaels should plan to include in field day? Which event should he consider eliminating? Explain.

_____

Problem Solving (Real World)

A travel website conducts a survey about Texans' favorite bordering state to visit. Monday's results are posted in a frequency table. Use the data for 5–6.

Favorite State to Visit	
States	Frequency
Arkansas	67
Louisiana	89
Oklahoma	78
New Mexico	95

5. Multi-Step How many more people prefer to visit Louisiana or New Mexico than Arkansas or Oklahoma?

_____

6. Multi-Step If 256 more people respond to the survey on Tuesday, how many people have responded to the survey so far? Describe the steps you follow to solve the problem.

_____

Fill in the bubble completely to show your answer.

7. Students vote for their favorite type of craft project and record the results in a frequency table. What is the difference in frequency between the least favorite craft and the craft with the most votes?

   (A) 9

   (B) 1

   (C) 37

   (D) 8

Favorite Craft Project	
Types of Crafts	Frequency
Mosaic	23
3-D Mobile	19
Origami	22
Collage	15
Paper Mask	14

8. Students vote for their favorite location for a field trip. Which two locations have the least difference in the frequency?

   (A) Aquarium and Zoo

   (B) Zoo and Science Museum

   (C) Theater and Art Museum

   (D) Aquarium and Theater

Favorite Field Trip	
Locations	Frequency
Aquarium	27
Zoo	33
Art Museum	19
Science Museum	38
Theater	25

The table shows the types of bagels sold at the bagel shop on Friday. Use the frequency table for 9–11.

9. One eighth of the number of raisin bagels sold on Friday were sold on Saturday. How many raisin bagels were sold on Saturday?

   (A) 8

   (B) 4

   (C) 2

   (D) 6

Bagels Sold	
Types of Bagels	Frequency
Plain	16
Chocolate Chip	28
Blueberry	36
Raisin	32

10. **Multi-Step** Sasha buys bagels for her garage sale customers. She buys all the chocolate chip bagels and half the plain bagels. Each bagel costs $2.50. How much does Sasha spend on bagels?

   (A) $70

   (B) $20

   (C) $90

   (D) $110

11. **Multi-Step** If the total number of bagels sold on Friday was double the number of bagels sold on Saturday, how many bagels were sold on Saturday?

   (A) 112

   (B) 51

   (C) 56

   (D) 224