4-4 Additional Practice

1. Leveled Practice You ask 170 of your classmates how often they send a letter in the mail. Complete the two-way frequency table to show the results of the survey.

Gender		Frequency				
		Weekly	Monthly	Yearly	Never	Total
	Girls	☐	20	15	☐	90
	Boys	15	10	☐	☐	☐
	Total	40	☐	40	60	170

2. Make Sense and Persevere
A television broadcasting company asked a sample of its customers, "What type of program do you watch most frequently?" The two-way frequency table shows the results of the survey. If the company wants to decrease the number of programs offered, which type of program should it choose to cut? Explain. © MP.1

Television Programs

Gender		Type of Program				
		Comedy	Drama	Sports	News	Total
	Women	123	215	89	306	733
	Men	127	110	217	222	676
	Total	250	325	306	528	1,409

3. A new radio station wants to know which type of music people in the area like the most. The station took a survey and displayed the results in a two-way frequency table.

a. If the radio station wants to mainly play two of the categories, which two categories would result in the most listeners? Explain.

Survey Results

Type of Music		Gender		
		Women	Men	Total
	Pop	35	42	77
	Rock	61	46	107
	Jazz	52	43	95
	Country	44	41	85
	Alternative	36	53	89
	Total	228	225	453

b. Which two categories draw about the same number of women and men? Explain.

4. Higher Order Thinking You ask 100 of your classmates if they like winter. There are 15 girls who like winter, 25 who do not, and 5 with no opinion. There are 20 boys who like winter, 10 who do not, and 25 with no opinion.

a. Construct a two-way frequency table to show the results of the survey.

Like Winter?		Gender		
		Girls	Boys	Total
	Yes			
	No			
	No Opinion			
	Total			

b. Does one group like winter more than the other? Explain.

c. Why might an opinion made based on this data be incorrect?

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5. A researcher tracks data about the outgoing mail in a large office. You want to complete the two-way frequency table to show the researcher's results.

PART A
Complete the two-way frequency table to show the results of the survey.

Type		Type of Delivery		
		Regular	Overnight	Total
	Letter		5	
	Package	25		35
	Total			55

PART B
Which type of outgoing mail is delivered from the office less frequently? Explain.

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