

## Additional Practice 2-2

### Estimate Sums and Differences

### Another Look!

During one week, Mr. Graham drove a truck to four different towns to make deliveries. Estimate how far he drove in all. About how much farther did he drive on Wednesday than on Monday?



Mr. Graham's Mileage Log

Day	Cities	Mileage
Monday	Mansley to Mt. Hazel	243.5
Tuesday	Mt. Hazel to Perkins	303
Wednesday	Perkins to Alberton	279.1
Thursday	Alberton to Fort Maynard	277.4

Round each number to the nearest hundred.

$$\begin{array}{r}
 243.5 \rightarrow 200 \\
 303 \rightarrow 300 \\
 279.1 \rightarrow 300 \\
 + 277.4 \rightarrow + 300 \\
 \hline
 1,100
 \end{array}$$

Mr. Graham drove about 1,100 miles.

Estimate the difference to the nearest ten.

$$\begin{array}{r}
 279.1 \rightarrow 280 \\
 - 243.5 \rightarrow - 240 \\
 \hline
 40
 \end{array}$$

Mr. Graham drove about 40 more miles on Wednesday than on Monday.

1. Marisol rode her bicycle each day for five days. Estimate how far she biked in all. Round each number to the nearest whole number.

$$12 + \underline{14} + 18 + \underline{12} + \underline{15} = \underline{71}$$

She biked about 71 miles.

2. About how much farther did she bike on Wednesday than on Thursday?

$$18 - \underline{12} = \underline{6}$$

She biked about 6 more miles on Wednesday.

Marisol's Bike Rides

Day	Mileage
Monday	12.3
Tuesday	14.1
Wednesday	17.7
Thursday	11.8
Friday	15.2

Estimate each sum or difference. **Sample estimates are given.**

3.  $19.7 - 6.9$   
**13**

4.  $59 + 43.6$   
**104**

5.  $5.82 + 1.69 + 2.3$   
**10**

6.  $87.99 - 52.46$   
**40**



7. **enVision® STEM** About how many more inches of rain did Asheville get than Wichita? About how many more days did it rain in Asheville than Wichita?

**Sample answers: About 19 in.; about 40 days**

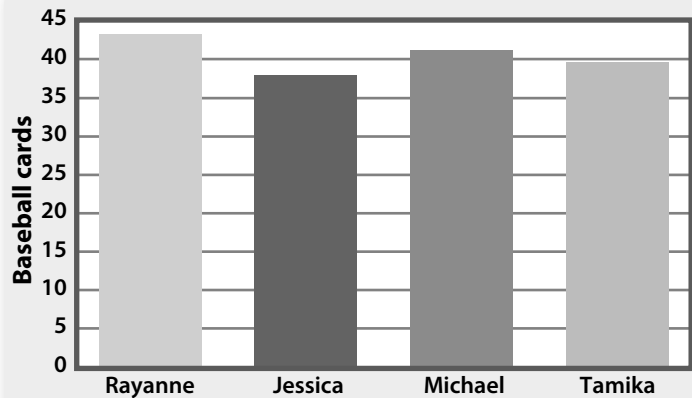
**Average Yearly Rainfall of U.S. Cities**

City	Inches	Days
Asheville, North Carolina	47.71	124
Wichita, Kansas	28.61	85

8. Four friends made a bar graph to show how many baseball cards they collected over the summer.

About how many cards did they collect in all?

**Sample answer: About 160 cards**



9. **Construct Arguments** Estimate the total weight of two boxes that weigh 9.4 pounds and 62.6 pounds using rounding and compatible numbers. Which estimate is closer to the actual total weight? Why?

**Sample answers: Rounding, about 72 lb; compatible numbers, about 70 lb. The rounded numbers are closer to the original numbers, so the rounded estimate will be closer to the actual total weight.**

10. **Higher Order Thinking** A gardener is estimating the amount of mulch needed for two garden beds. There is no room to store extra mulch. Is it better to estimate a greater or lesser amount than the mulch he needs? Why?

**Lesser amount; Sample answer: There is no room to store the extra mulch, so the gardener should order just the amount he needs.**



### Assessment Practice

11. Martha bought an apple for \$0.89 and a drink for \$1.95. Which is the best estimate of how much money she spent?

(A) \$2.00  
(B) \$3.00  
(C) \$4.00  
(D) \$5.00

12. Rachel bought a book for \$5.49 and a game for \$10.98. She paid with a \$20 bill. Which is the best estimate of the amount of change she should receive?

(A) \$4  
(B) \$6  
(C) \$14  
(D) \$16