

Estimating Sums and Differences

Sample answers are given for 1–4.

Estimate each sum or difference.

1. $5,602 - 2,344$ 3,300 2. $7.4 + 3.1 + 9.8$ 20
 3. $2,314 + 671$ 3,000 4. $54.23 - 2.39$ 52

5. **Number Sense** Wesley estimated $5.82 - 4.21$ to be about 2. Is this an overestimate or an underestimate? Explain.

It is an overestimate, because 5.82 was rounded up and 4.21 was rounded down.

6. Estimate the total precipitation in inches and the total number of days with precipitation for Asheville and Wichita.

Average Yearly Precipitation of U.S. Cities

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

About 77 in.;
about 210 days

7. **Reasonableness** Which numbers should you add to estimate the answer to this problem: $87,087 + 98,000$?

A $88,000 + 98,000$

C $87,000 + 98,000$

B $85,000 + 95,000$

D $80,000 + 90,000$

8. **Explain It** Estimate the total weight of two boxes that weigh 9.4 lb and 62.6 lb using rounding and compatible numbers. Which estimate is closer to the actual total weight? Why?

The rounded numbers are closer to the original numbers, so the rounded estimate will be closer to the actual total weight.