

## PROBLEM SOLVING

### EXAMPLE 2

on p. 3  
for Exs. 57–59

57. **MINIATURE GOLF** The table shows the scores of people playing 9 holes of miniature golf.

<b>Lance</b>	+2	+1	0	0	-1	+1	+3	0	0
<b>Darcy</b>	-1	+3	0	-1	+1	0	0	+1	-1
<b>Javier</b>	+1	0	+1	0	0	-1	+1	0	+1
<b>Sandra</b>	-1	-1	0	0	+1	-1	0	0	0

- Find the sum of the scores for each player.
- List the players from best (lowest) to worst (highest) total score.

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58. **VOLCANOES** The following list shows the elevations (in feet) of several volcano summits above or below sea level.

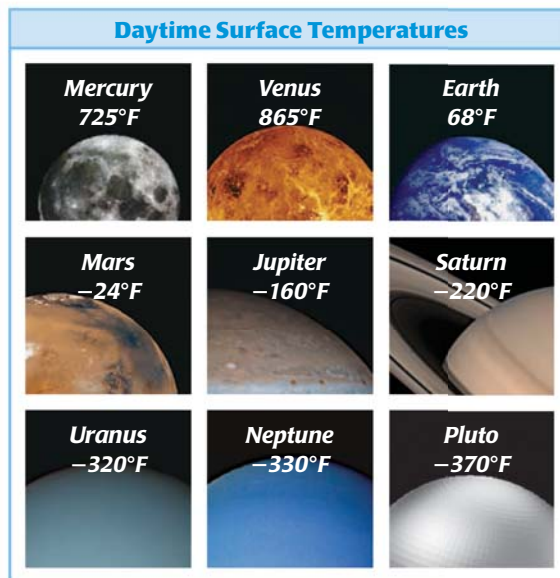
641, 3976, 610, -59, 1718, 1733, -137

Order the elevations from lowest to highest.

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59. **MULTI-STEP PROBLEM** The chart shows the average daytime surface temperatures on the planets in our solar system.

- Sort by Temperature** List the planets in order from least to greatest daytime surface temperature.
- Sort by Distance** List the planets in order from least to greatest distance from the sun.
- Find Patterns** What pattern do you notice between surface temperature and distance from the sun?
- Analyze** Which planet does not follow the general pattern you found in part (c)?



60. **TX TAKS REASONING** The average weight of the blue whale (the largest mammal) is 120 tons, and the average weight of the bumblebee bat (the smallest mammal) is 0.07 ounce.

- Convert** Convert the weight of the blue whale from tons to pounds. Convert the weight of the bumblebee bat from ounces to pounds.
- Compare** About how many times as heavy as the bat is the blue whale?
- Find a Method** Besides converting the weights to pounds, what is another method for comparing the weights of the mammals?

### EXAMPLES 5 and 6

on p. 5  
for Exs. 60–61