

**Step 1**

Write the numbers.
Line up the decimal points.

$$\begin{array}{r} 21.49 \\ + 21.59 \\ \hline \end{array}$$

Why do we line up the decimal points? [To make sure all place values are lined up correctly]

Step 2

First, add the hundredths. Regroup if necessary.

$$\begin{array}{r} 1 \\ 21.49 \\ + 21.59 \\ \hline 8 \end{array}$$

What is the sum of the hundredths? [0.18] **What do you write?** [8 hundredths in the sum and add 1 to the tenths]

Step 3

Add the tenths, ones, and tens. The decimal point in the sum is aligned with the decimal point in the addends. Check the sum with your estimate.

$$\begin{array}{r} 1 \\ 21.49 \\ + 21.59 \\ \hline 43.08 \end{array}$$

The total time for the first two legs of the race was 43.08 seconds.

In Step 3, how is the regrouping shown when the tenths are added? [A small one is written over the ones place.]

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Problem Solving

Exercise	Content
27	Perimeter ($17.6 + 17.6 + 26.21 + 26.21$)
28	Communicate Math Understanding Addition ($3.8 + 4.6$)
29	Multiple-Step
30	Extra Information Multiple-Step ($20 - [(3 \times 3) + 4]$)
31	Estimation
32	Addition ($45 + 12.19 + 37.44 + 44.97$)
33	Compare Decimals

Students use underlying processes and mathematical tools for Exercises 27–33. Remind students to check for reasonableness when solving each problem.

Exercises 27

Language of Math: Everyday Vocabulary *Perimeter means the distance around an object. If you know the distances of each side, how can you find the distance around the entire building?* [Add the measures of all the sides.]

Exercise 31

Test-Taking Tip: Gather Information Remind students to gather information from the data chart. *Check the column with rainfall amounts to find the greatest combined amount.*

Early Finishers *Draw a four-sided polygon. Measure the polygon to the nearest tenth of a centimeter using a centimeter ruler. Now add the four side lengths to find the perimeter.*

Problem Solving

27. A balloon mural of the Chicago skyline measures 17.6 m on two sides and 26.21 m on the other two sides. What is the perimeter of the mural?
A 38.81 m B 48.21 m C 55.74 m **D 87.62 m**

28. **Writing to Explain** Juan adds $3.8 + 4.6$ and gets a sum of 84. Is his answer correct? Tell how you know.
See margin.

29. **Think About the Process** Jamie earned \$27 taking care of a neighbor's dog for one week. She spent \$19.95 on a new DVD. Later, she earned \$15 for raking leaves. Which expression shows how to find the money Jamie has left?

A $\$27 + \$19.95 + \$15$ **C $\$27 - \$19.95 + \$15$**
B $\$19.95 - \$15 + \$27$ D $\$27 - \$19.95 - \$15$

30. At a flower shop, Teri sees that roses are \$3 each, carnations are \$4 for 3 flowers, and tulips are \$4 for 4 flowers. She buys 3 roses and 3 carnations. She has \$20. How much change does Teri get back?
Teri gets \$7 back.

31. Which two cities had the greatest combined rainfall for the period given?

A Caribou and Boise
B Springfield and Macon
C Macon and Boise
D Caribou and Springfield

Location	Rainfall amount in a typical year (in inches)
Macon, GA	45
Boise, ID	12.19
Caribou, ME	37.44
Springfield, MO	44.97

32. What is the typical yearly rainfall for all four cities?
139.6 in.

33. Which location had less than 45 inches of rain but more than 40 inches of rain?
Springfield, MO

Lesson 2-6

43

28. No, 84 is not close to the estimated answer of $4 + 5 = 9$. The correct sum should be 8.4.