

Step 1 Write the numbers Line up the decimal points. 21.49

+ 21.59

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

21,49

8

+ 21.59

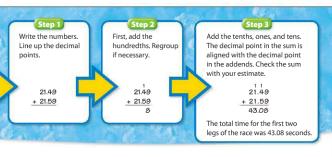
What is the sum of the hundredths? [0.18] What do you write? [8 hundredths in the sum and add 1 to the tenths]

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.

> 21.49 + 21.59 43.08

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.]



C 55.74 m

- 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
- (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.

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

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

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

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

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.