

## Additional Practice 2-4

### Add Decimals

#### Another Look!

A scientist used 0.62 milliliter of solution for an experiment and 0.56 milliliter of solution for a different experiment. How much solution did he use for the two experiments?



You can estimate first to be sure that your answer is reasonable. Both 0.62 and 0.56 are close to 0.5. So the answer will be close to  $0.5 + 0.5 = 1$ .

Write the numbers, lining up the digits by place value. Include the zeros as place holders in the ones place.

| ones | tenths | hundredths |
|------|--------|------------|
| 0    | 6      | 2          |
| + 0  | 5      | 6          |
|      |        |            |

Add by place value.

| ones | tenths | hundredths |               |
|------|--------|------------|---------------|
| 0    | 6      | 2          |               |
| + 0  | 5      | 6          |               |
|      | 0      | 8          | (0.02 + 0.06) |
| 1    | 1      |            | (0.6 + 0.5)   |
| 1    | 1      | 8          |               |

The scientist used 1.18 milliliters of solution.

**Leveled Practice** In 1–11, use place value and properties of operations to find the sum.

1.  $55.25 + 298 + 16.3$

$$\begin{array}{r} 55.25 \\ 2.98 \\ + 16.30 \\ \hline 74.53 \end{array}$$

2.  $37.2$   
 $103.$   
 $+ 8.52$   
**148.72**

3.  $2.97$   
 $+ 0.35$   
**3.32**

4.  $5.62$   
 $+ 7.99$   
**13.61**

5.  $23.59$   
 $+ 6.56$   
**30.15**

6.  $13 + 7.69$  **20.69**

7.  $41.5 + 12.61$  **54.11**

8.  $39.48 + 26.7$  **66.18**

9.  $67.55 + 0.83$  **68.38**

10.  $88.8 + 4.27 + 78.95$  **172.02**

11.  $2.94 + 45 + 58.06$  **106**



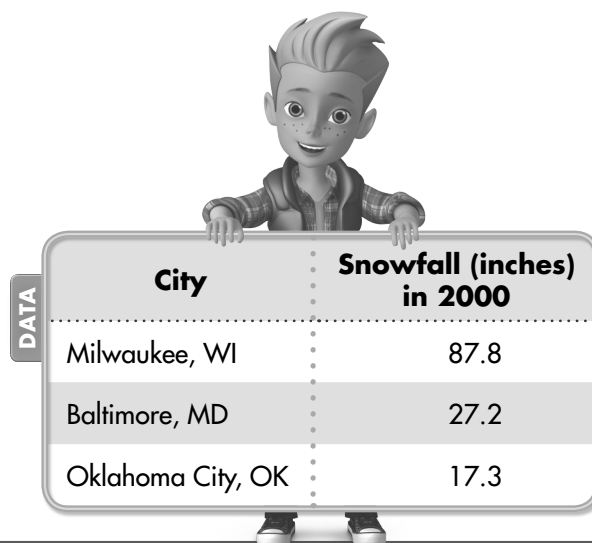
For 12 and 13, use the table.

12. How much combined snowfall was there in Milwaukee and Oklahoma City?

**105.1 in.**

13. What is the combined snowfall total for all three cities?

**132.3 in.**



| City              | Snowfall (inches) in 2000 |
|-------------------|---------------------------|
| Milwaukee, WI     | 87.8                      |
| Baltimore, MD     | 27.2                      |
| Oklahoma City, OK | 17.3                      |

In science class, students weighed different amounts of clay. Carmen's weighed 4.361 ounces, Kim's weighed 2.704 ounces, Simon's weighed 5.295 ounces, and Angelica's weighed 8.537 ounces.

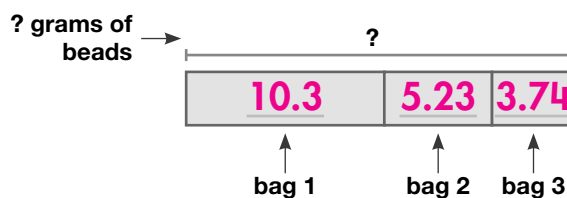
14. How many ounces of clay did Carmen and Angelica have in all?

**12.898 ounces of clay**

15. How many ounces of clay did Kim and Simon have in all?

**7.999 ounces of clay**

16. Three bags of beads have masses of 10.3 grams, 5.23 grams, and 3.74 grams. Complete the bar diagram to find the total mass of all the beads.



**19.27 g**

17. **Reasoning** Reilly adds 45.3 and 3.21. Should his sum be greater than or less than 48? Tell how you know.

**The sum should be greater than 48, because the whole numbers have a sum of 48 without adding the decimals.**

18. **Higher Order Thinking** Patrick has a 600-meter skein of yarn. He used 248.9 meters of yarn to make a hat. Does he have enough yarn left to make a scarf that uses 354.03 meters of yarn? Explain.

**No;  $248.9 + 354.03 = 602.93$ , which is greater than 600.**

### Assessment Practice

19. Choose all expressions that are equal to 15.02.

- ☒  $12.96 + 2.06$   
☐  $0.56 + 14.64$   
☒  $2.62 + 12.4$   
☒  $1.22 + 1.8 + 12$   
☐  $1 + 0.5 + 13.8$

20. Choose all expressions that are equal to 13.99.

- ☐  $13 + 0.9$   
☒  $6.25 + 3.9 + 3.84$   
☒  $4.635 + 9.355$   
☒  $8 + 5.99$   
☐  $10 + 3.09$