Module 5   Decimal Operations, Exponents, and Powers
Lesson 3   Adding and Subtracting Decimals

Independent Practice

5.3

Estimate.

1. $12.22 + $15.88

$28

2. $7.75 + $0.98

$9

3. $55.34 – $4.90

$50

Find the sum using a model.

4. $0.92 + 1.01$
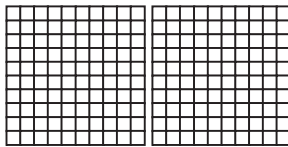
1.93
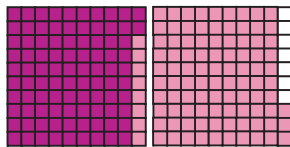
5. $0.5 + 0.22$
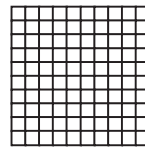
0.72
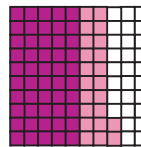
Find the sum.

6. $6.06 + 0.003$

6.063

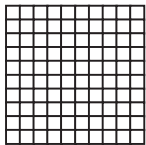**7.** $4.31 + 9.2$

13.51

8. $56.249 + 4.404$

60.653

Find the difference using a model.

9. $0.41 - 0.12$

0.29
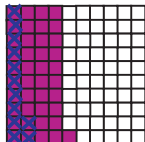
10. $1.32 - 0.7$
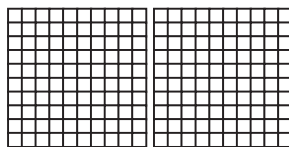
0.62
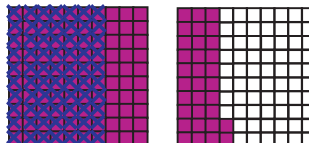
Find the difference.

11. $43.01 - 5.5$

37.51

12. $57.41 - 45.985$

11.425

13. $407 - 201.881$

205.119

Journal

1. Nina has $15 and wants to buy items costing $9.75, $2.19, and $3.10. Should she use an estimate to figure out if she can afford to buy the items? Explain.

2. Tell how to find the sum of 3.05 and 0.2 without using a model.

3. Explain how to subtract 0.2 from 0.75 using a model.

4. In which of the following two problems is it necessary to write in the zero in the hundredths place? Explain why. Then solve each problem.

$$\begin{array}{r} 3.2 \\ -\,1.93 \\ \hline \end{array} \qquad \begin{array}{r} 3.23 \\ -\,1.9 \\ \hline \end{array}$$

Independent Practice

Module 5   Decimal Operations, Exponents, and Powers
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Cumulative Review

1. **Round to the nearest whole number.**

   4.66
   5

2. **Round to the nearest tenth.**

   2.811
   2.8

3. **Round to the nearest hundredth.**

   0.2780
   0.28

4. **Round to the nearest thousandth.**

   0.1094
   0.109

Use <, >, or = to compare each pair of decimals.

5. 0.2018 and 0.2108
   0.2018 < 0.2108

6. -5.76 and $-5\frac{3}{4}$

   $\mathbf{-5.76 < -5\frac{3}{4}}$

7. 8.1 and 81%
   8.1 > 81%

8. 1.440 and 1.44
   1.440 = 1.44

Order each set of numbers from least to greatest.

9. $0.51, -0.51, -0.49, \frac{6}{12}$

   $\mathbf{-0.51, -0.49, \frac{6}{12}, 0.51}$

10. $-0.03, -0.12, -0.5, -\frac{2}{8}$

    $\mathbf{-0.5, -\frac{2}{8}, -0.12, -0.03}$

11. A math quiz has 24 questions. Jada has four questions wrong. Li has 18 questions right. Sasha has 75% of the questions correct. Which two students have the same number of correct answers?

    Li and Sasha

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Possible Journal Answers

1. **No: The estimate is $10 + $2 +$3, or $15. The estimate is the same as the amount she has, so the exact answer could be just above or just below $15. Because it is so close, she needs an exact answer to know if she has enough money to buy the items.**

2. **First, line up the numbers at their decimal points.**

$$\begin{array}{r} 3.05 \\ +\ 0.2 \\ \hline \end{array}$$

Then, write a zero after the two.

$$\begin{array}{r} 3.05 \\ +0.20 \\ \hline \end{array}$$

Find the sum by adding vertically.

$$\begin{array}{r} 3.05 \\ +0.20 \\ \hline 3.25 \end{array}$$

3. **Start with 75 hundredths shaded. Cross out 20 hundredths, which is the same as two tenths. That leaves 55 hundredths, or 0.55.**

4. **It is necessary in the first problem because three hundredths is to be subtracted from zero hundredths. The numbers need to be regrouped. Without writing the zero in the hundredths place, the three might accidentally be written in the difference instead of seven hundredths.**

$$\begin{array}{r} 3.20 \\ -\ 1.93 \\ \hline 1.27 \end{array}$$

In the second problem, zero hundredths is being subtracted from three hundredths which does not require regrouping.

$$\begin{array}{r} 3.23 \\ -\ 1.90 \\ \hline 1.33 \end{array}$$