

3-6

Name _____ Date _____

Adding and Subtracting Decimals

(pages 118–121)

You add and subtract decimals the same way you do whole numbers, after you line up the decimal points.

Adding and Subtracting Decimals

- Write the numbers you want to add or subtract so that the decimal points are in a line. Add zeros if they are needed.
- Estimate the sum or difference so you can check to see if your final answer is reasonable.
- Add or subtract. Compare the result with your estimate.

EXAMPLES

- A**
- Find the sum of 2.45 and 30.7.

Line up the decimal points and add a zero.

$$\begin{array}{r} 2.45 \\ + 30.70 \\ \hline 33.15 \end{array}$$

*Estimate first.
This is about $31 + 2$ or 33 .
This is reasonably close to the estimate of 33 .*

- B**
- How much is 60 minus 27.8?

Line up the decimal points and add a zero.

$$\begin{array}{r} 60.0 \\ - 27.8 \\ \hline 32.2 \end{array}$$

*Estimate first.
This is about $60 - 30$ or 30 .
This is reasonably close to the estimate of 30 .*

Try These Together

1. Solve
- $x = 3 - 2.09$
- .

HINT: Remember that 3 is the same as 3.00

2. Solve
- $4.56 + 23 = y$
- .

*HINT: Rewrite 23 with a decimal point and two zeros as you line up the numbers to add.***PRACTICE****Add or subtract.**

3. $5.6 + 4.2$

4. $1.25 + 1.34$

5. $12.61 + 3.27$

6. $25.69 - 24.54$

7. $2.7 - 1.1$

8. $13.32 - 9.12$

9. $\$10.26 - \8.28

10. $5.68 + 3.45$

11. $9 + 3.43$

Solve each equation.

12. $4.05 + 2.68 = g$

13. $m = 16.51 - 13.25$

14. $b = 0.06 + 0.15$

15. What is the value of
- $c + d$
- if
- $c = 22.4$
- and
- $d = 36.2$
- ?

16. Evaluate
- $q - r$
- if
- $q = 3.5$
- and
- $r = 2.1$
- .

17. **Surveys** Manuel surveyed two of his friends to find out the average number of sodas they drink in one week. Carl drinks 4.5 sodas and Jon drinks 6.75 sodas. How many sodas do Carl and Jon drink together in one week?



18. **Standardized Test Practice** Janette is 1.55 meters tall and Kirsten is 1.47 meters tall. How much taller is Janette than Kirsten?

A 0.08 m**B** 0.06 m**C** 0.07 m**D** 0.09 m

Answers: 1. 0.91 2. 27.56 3. 9.8 4. 2.59 5. 15.88 6. 1.15 7. 1.6 8. 4.2 9. \$1.98 10. 9.13 11. 12.43 12. 6.73 13. 3.26 14. 0.21 15. 58.6 16. 1.4 17. 11.25 18. A