

## Estimating Decimals

### Adding & Subtracting Decimals

Estimate the sum or difference by rounding to the nearest whole number.

- |                    |                   |                     |
|--------------------|-------------------|---------------------|
| 1. $12.5 + 3.7$    | 2. $54.6 + 2.765$ | 3. $35.4 - 8.9$     |
| 4. $142.6 - 37.42$ | 5. $0.54 + 13.77$ | 6. $94.32 + 14.829$ |
| 7. $67.312 - 5.47$ | 8. $20.27 - 5.79$ | 9. $8.215 + 104.56$ |

Fill in the missing digit.

$$\begin{array}{r} 10. \quad 8.76 \\ + 2.9? \\ \hline 11.71 \end{array}$$

$$\begin{array}{r} 11. \quad 37.25 \\ + 84.76 \\ \hline 121.61 \end{array}$$

$$\begin{array}{r} 12. \quad 24.75 \\ - 17.48 \\ \hline 8.27 \end{array}$$

Evaluate the expression when  $x = 39.6$  and  $y = 14.65$ .

- |                |                    |                  |
|----------------|--------------------|------------------|
| 13. $12.7 + y$ | 14. $y - 5.9$      | 15. $x + y$      |
| 16. $x - y$    | 17. $y - 2.73 + x$ | 18. $27 - y + x$ |

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- |                            |                        |
|----------------------------|------------------------|
| 19. $2.84 + 3.21$          | 20. $12.62 + 9.34$     |
| 21. $10.85 - 5.19$         | 22. $2.77 + 4 + 13.25$ |
| 23. $6.04 + 18.85 + 10.25$ | 24. $8.88 - 3.2$       |

Evaluate the expression. Use estimation to check your answer

25.  $347.4 + 2.29 + 14$   
 26.  $79 - 2.304 - 16.7$   
 27.  $65.84 - 7.013 + 14.6$

28. A quarter horse has a top running speed of 47.5 miles per hour and a greyhound has a top running speed of 39.35 miles per hour. How much faster than the greyhound can the quarter horse run?

29. During the 1880s, the average temperature of Earth was 56.65 degrees Fahrenheit. During the 1980s, the average temperature of Earth was 57.36 degrees Fahrenheit. How much warmer was Earth's average temperature in the 1980s than in the 1880s?

30. You are mailing a 4-pound package, an 8-pound package, and a 9-pound package to another city. It will cost \$4.86 to mail the 4-pound package, \$5.98 to mail the 8-pound package, and \$6.11 to mail the 9-pound package. Use front-end estimation to estimate how much it will cost you to mail all three packages.