

Practice B

For use with pages 166–172

Perform any indicated operation. Round the result to the nearest tenth and then to the nearest hundredth.

1. -42.8451

2. $-3.06(5.98)$

3. $61.0847 + 62.5583$

4. $-24.0321 - 21.8219$

5. $-23.981(-4.525)$

6. $15.951 \div 3.476$

Solve the equation. Round the result to the nearest hundredth. Check the rounded solution.

7. $3x + 13 = 26$

8. $7x - 9 = 16$

9. $-2 + 4x = -13$

10. $17 = 48 - 6x$

11. $8x - 3 = -54$

12. $-67 = -14x + 29$

13. $-19x - 21 = -80$

14. $21x - 33 = -121$

15. $12(2x - 11) = 3x + 43$

16. $-x = 5(-6 - 7x)$

17. $2(x - 3) = 5x + 7$

18. $14(3 - 7x) = -(9 + 2x)$

Solve the equation. Round the result to the nearest hundredth.

19. $2.39x + 4.82 = 9.37 + 6.55x$

20. $35.13x - 7.26 = 11.48 - 14.91x$

21. $2.75 - 23.68x = 8.04 + 23.17x$

22. $51.56 - 29.28x = -47.78x - 68.82$

23. $-3(2.47x + 1.23) = 9.82$

24. $1.32(4x - 3) = 2.38x - 1.59$

25. $2.1(8.7 - 6.3x) = -9.5x - 12.4$

26. $3.44 - 1.25x = 1.05(2.38x + 6.81)$

Multiply the equation by a power of 10 to write an equivalent equation with integer coefficients. Solve the equation. Round the result to the nearest hundredth.

27. $-1.8 + 4.1x = 5.7$

28. $5.3 + 9.2x = 7.4x - 8.8$

29. $26.4x - 3.2 = 5.9x - 32.1$

30. **Purchase of Bike** You are shopping for a new bike. The sales tax is 6%. You have a total of \$159 to spend. What is your price limit for the bike?

Price limit	+	Sales tax rate	·	Price limit	=	Total cost
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31. **Track Meet** The winner of the track meet had an average speed of 5 meters per second. The second place runner had an average speed of 4.5 meters per second. If the winner finished 2.2 seconds ahead of the second place runner, how long did it take the winner to cross the finish line?

Rate of winner	·	Time of winner	=	Rate of 2nd place runner	·	Time of 2nd place runner
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32. **Buying a Sweatshirt** You have \$32.14 to spend for a sweatshirt. The sales tax is 5%. What is the most the sweatshirt can cost?