

# Rounding Decimals

 (pages 47–49)

You can round decimals to any place-value position.

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| <b>Rounding Decimals</b> | <ul style="list-style-type: none"> <li>• Underline the place you want to round to.</li> <li>• Look at the digit to the right of the underlined place.</li> <li>• Leave the underlined digit the same if the digit to the right is 0, 1, 2, 3, or 4.</li> <li>• Round up by adding 1 to the underlined digit if the digit to the right is 5, 6, 7, 8, or 9.</li> <li>• Then drop all the digits to the right of the underlined digit.</li> </ul> |
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## EXAMPLES

**A** Round 47.541 to the nearest tenth.

*Underline the digit in the tenths place (5). Look at the digit to the right (4). Since 4 is less than 5, leave the underlined digit the same. Then drop all the digits to the right. The answer is 47.5.*

**B** Round 1.0271 to the nearest hundredth.

*Underline the digit in the hundredths place (2). Because the next digit to the right is greater than 5, add one to the underlined digit. Then drop all the digits to the right. The answer is 1.03.*

## Try These Together

1. Round 62.358 to the nearest hundredth.

*HINT: Remember that with an 8 you round up.*

2. Round 1.0254 to the underlined place-value position.

*HINT: With a 2 you leave the underlined digit the same.*

## PRACTICE

**Round each number to the place indicated.**

3. 1.54; tenth

4. 15.613; hundredth

5. 0.18; tenth

6. 11.877; hundredth

7. 35.644; hundredth

8. 9.4563; thousandth

**Round each number to the underlined place-value position.**

9. 6.376

10. 8.264

11. 0.0588

12. **Maps** Charlotte is calculating how many miles her family will drive on a trip from Payneville to Fayette and then on to Princeton. It is 324.5 miles from Payneville to Fayette and 580.64 miles from Fayette to Princeton. Find the distance from Payneville to Princeton to the nearest tenth of a mile.



13. **Standardized Test Practice** In September, Rosa's dog weighed 45.84 pounds. In February, it weighed 56.7 pounds. To the nearest tenth, how much weight did it gain?

**A** 10.8 pounds

**B** 10.9 pounds

**C** 11 pounds

**D** 11.1 pounds

Answers: 1. 62.36 2. 1.0 3. 1.5 4. 15.61 5. 0.2 6. 11.88 7. 35.64 8. 9.456 9. 6.4 10. 8.26 11. 0.059 12. 905.1 miles 13. B