

Rounding Decimals

Grade 5 Math • Section 1.5

Name: _____

Date: _____

Score: _____ / 14

Quick Review and Helpful Hints

👉 Rounding rule: Look at the digit to the **right** of the rounding place. If it is 5 or greater, round up. If it is less than 5, round down (keep the digit the same).

💡 After rounding, drop all digits to the right of the rounding place. Example: 7.849 rounded to the nearest tenth is 7.8 (since $4 < 5$).

⚠️ Do not keep trailing digits after the rounding place.

🔍 Example: Round 3.476 to the nearest hundredth.

👉 The hundredths digit is 7. Look one place to the right: the thousandths digit is 6. Since $6 \geq 5$, we round the hundredths digit up from 7 to 8. The answer is 3.48.

💡 Answer: 3.48

✂ Practice Problems

Round each number to the indicated place.

- | | | | |
|---|-------|---|-------|
| 1. 6.374 to the nearest tenth: _____ | _____ | 7. 7.035 to the nearest tenth: _____ | _____ |
| 2. 0.845 to the nearest hundredth: _____ | _____ | 8. 2.8451 to the nearest hundredth: _____ | _____ |
| 3. 12.0561 to the nearest thousandth: _____ | _____ | 9. 0.0075 to the nearest thousandth: _____ | _____ |
| 4. 9.999 to the nearest tenth: _____ | _____ | 10. 63.505 to the nearest hundredth: _____ | _____ |
| 5. 0.452 to the nearest whole number: _____ | _____ | 11. 4.9982 to the nearest tenth: _____ | _____ |
| 6. 35.649 to the nearest one: _____ | _____ | 12. 100.095 to the nearest hundredth: _____ | _____ |

✍ Word Problems

13. A gallon of milk costs \$3.4789 per gallon when bought in bulk. Round the price to the nearest cent (hundredth).

14. A scientist records a measurement of 0.06547 grams. She needs to report it to the nearest thousandth. What value should she report?



Answer Keys

- | | |
|-----------|------------|
| 1. 6.4 | 8. 2.85 |
| 2. 0.85 | 9. 0.008 |
| 3. 12.056 | 10. 63.51 |
| 4. 10.0 | 11. 5.0 |
| 5. 0 | 12. 100.10 |
| 6. 36 | 13. \$3.48 |
| 7. 7.0 | 14. 0.065 |

Step-by-Step Explanations

- Start with the main idea. For rounding decimals, look one digit to the right of the rounding place. Rounding 6.374 gives 6.4. The digit to the right of the target place decides whether to round up or stay put.
- Keep the work tidy. For rounding decimals, look one digit to the right of the rounding place. Rounding 0.845 gives 0.85. After rounding, the answer should stop at exactly the requested place.
- Look at what the numbers mean. For rounding decimals, look one digit to the right of the rounding place. Rounding 12.0561 gives 12.056. Money rounded to the nearest cent always needs two decimal places.
- Use the setup first. For rounding decimals, look one digit to the right of the rounding place. Rounding 9.999 gives 10.0. The digit to the right of the target place decides whether to round up or stay put.
- Check the size of the answer. For rounding decimals, look one digit to the right of the rounding place. Rounding 0.452 gives 0. After rounding, the answer should stop at exactly the requested place.
- Match the operation to the words. For rounding decimals, look one digit to the right of the rounding place. Rounding 35.649 gives 36. Money rounded to the nearest cent always needs two decimal places.
- Write the important values first. For rounding decimals, look one digit to the right of the rounding place. Rounding 7.035 gives 7.0. The digit to the right of the target place decides whether to round up or stay put.
- Follow the pattern carefully. For rounding decimals, look one digit to the right of the rounding place. Rounding 2.8451 gives 2.85. After rounding, the answer should stop at exactly the requested place.
- Start with the main idea. For rounding decimals, look one digit to the right of the rounding place. Rounding 0.0075 gives 0.008. Money rounded to the nearest cent always needs two decimal places.
- Keep the work tidy. For rounding decimals, look one digit to the right of the rounding place. Rounding 63.505 gives 63.51. The digit to the right of the target place decides whether to round up or stay put.
- Look at what the numbers mean. For rounding decimals, look one digit to the right of the rounding place. Rounding 4.9982 gives 5.0. After rounding, the answer should stop at exactly the requested place.
- Use the setup first. For rounding decimals, look one digit to the right of the rounding place. Rounding 100.095 gives 100.10. Money rounded to the nearest cent always needs two decimal places.
- Check the size of the answer. For rounding decimals, nearest cent means hundredth; 3.4789 rounds up to \$3.48. The digit to the right of the target place decides whether to round up or stay put.
- Match the operation to the words. For rounding decimals, nearest thousandth means three decimal places; the next digit is 4, so keep 0.065. After rounding, the answer should stop at exactly the requested place.



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