

# REVIEW: Rounding Decimals

Name \_\_\_\_\_

## Key Concept and Vocabulary

round up

Decision digit is 5, 6, 7, 8, or 9.

round down

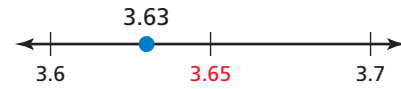
Decision digit is 0, 1, 2, 3, or 4.

Rounding



## Visual Model

Round 3.63 to the *nearest tenth*.



3.63 is closer to 3.6 than to 3.7. So, 3.63 rounds to 3.6.

## Skill Examples

- To the *nearest whole number*:  
3.129 rounds to 3.
- To the *nearest tenth*:  
4.78 rounds to 4.8.
- To the *nearest hundredth*:  
0.143 rounds to 0.14.

## Application Example

- The price of 1 gallon of gasoline is \$2.899. Round this price to the nearest cent.

To the *nearest cent*: 2.899 rounds to 2.90.

- The price of 1 gallon of gasoline is about \$2.90.



## PRACTICE MAKES PURR-FECT®

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Round to the nearest whole number.

5. 5.74 6      6. 1.004 1      7. 26.237 26      8. 4.506 5

Round to the nearest tenth.

9. 0.16 0.2      10. 0.738 0.7      11. 1.05 1.1      12. 10.049 10.0

Round to the nearest hundredth.

13. 0.012 0.01      14. 2.406 2.41      15. 0.463 0.46      16. 12.006 12.01

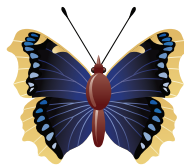
Round the butterfly's weight to the nearest hundredth of a gram.

17. 0.034 g



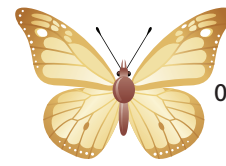
0.03 gram

18. 0.107 g



0.11 gram

19. 0.008 g



0.01 gram

20. **PRICE OF GAS** The price of 1 gallon of gasoline is \$2.479. Round this price to the nearest cent. \$2.48
21. **BUTTERFLY WEIGHTS** All species of butterflies weigh between 0.003 gram and 3 grams. Explain why it would *not* make sense to round some butterfly weights to the nearest hundredth of a gram.

The weight of any butterfly less than 0.005 gram would round to 0.