

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 to the *nearest tenth*.



3.63 rounds to 3.6 because
3.63 is closer to 3.6 than to 3.7.

Skill Examples

- To the *nearest tenth*:
4.78 rounds to 4.8. **Round up.**
- To the *nearest hundredth*:
0.143 rounds to 0.14. **Round down.**
- To the *nearest thousandth*:
0.0029 rounds to 0.003. **Round up.**

Application Example

- Gasoline costs \$2.899 per gallon. Round this price to the nearest cent.

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

••• The gasoline costs about \$2.90 per gallon.

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Round to the nearest tenth. (The symbol \approx means “is approximately to.”)

5. $0.16 \approx \underline{0.2}$ 6. $0.038 \approx \underline{0}$ 7. $1.05 \approx \underline{1.1}$ 8. $10.049 \approx \underline{10.0}$

Round to the nearest hundredth.

9. $0.0123 \approx \underline{0.01}$ 10. $2.406 \approx \underline{2.41}$ 11. $0.463 \approx \underline{0.46}$ 12. $12.006 \approx \underline{12.01}$

Round to the nearest thousandth.

13. $0.0456 \approx \underline{0.046}$ 14. $4.5062 \approx \underline{4.506}$ 15. $1.0043 \approx \underline{1.004}$ 16. $0.6666 \approx \underline{0.667}$

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

17. 0.034 g



Weight $\approx \underline{0.03}$

18. 0.107 g



Weight $\approx \underline{0.11}$

19. 0.008 g



Weight $\approx \underline{0.01}$

20. **PRICE OF GAS** Gasoline costs \$2.379 per gallon. Round this price to the nearest cent. $\underline{\$2.38}$
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.