

3-3**Study Guide and Intervention*****Rounding Decimals***

To round a decimal, first underline the digit to be rounded. Then look at the digit to the right of the place being rounded.

- If the digit is 4 or less, the underlined digit remains the same.
- If the digit is 5 or greater, add 1 to the underlined digit.

EXAMPLE 1 Round 6.58 to the nearest tenth.

Underline the digit to be rounded.	Look at the digit to the right of the underlined digit.	Since the digit to the right is 8, add one to the underlined digit.
6. <u>5</u> 8	6. <u>5</u> 8	6.6

To the nearest tenth, 6.58 rounds to 6.6.

EXAMPLE 2 Round 86.943 to the nearest hundredth.

Underline the digit to be rounded.	Look at the digit to the right of the underlined digit.	Since the digit is 3 and $3 < 5$, the digit 4 remains the same.
86.9 <u>4</u> 3	86.9 <u>4</u> 3	86.94

To the nearest hundredth, 86.943 rounds to 86.94.

EXERCISES

Round each decimal to the indicated place-value position.

- 3.21; tenths
- 2.0505; thousandths
- 6.5892; hundredths
- 235.709; hundredths
- 0.0914; thousandths
- 34.35; tenths
- 500.005; hundredths
- 2.5134; tenths
- 0.0052; thousandths
- 0.0052; hundredths
- 131.1555; thousandths
- 232.88; tenths