

Round to the ones place
unless said to round elsewhere

Chapter 3 Lesson 2

Estimate Products

Estimate Products of Decimals- round each number.

1. First underline the DIGIT to be ROUNDED.
2. Look at the digit to the RIGHT of the place being rounded.
 - a. If the digit is 4 or less, the underline digit **REMAINS THE SAME.**
 - b. If the digit is 5 or greater, **ADD 1 TO THE UNDERLINE DIGIT.**
 - c. After rounding, **DROP ALL THE DIGITS AFTER THE UNDERLINE DIGIT.**
3. After the numbers are rounded, multiply.

Examples: Estimate each product.

$$\underline{5.8} \times 4$$

$$6 \times 4$$

$$24$$

$$\underline{13.92} \times \underline{2.7}$$

$$14 \times 3$$

$$42$$

$$\underline{94.89} \times \underline{3.11}$$

$$\cancel{94.89} \times \cancel{3.11}$$

$$95 \times 3$$

$$285$$

$$\begin{array}{r} 1 \\ 95 \\ \times 3 \\ \hline 285 \end{array}$$

Use estimation to determine whether each answer is reasonable. If the answer is reasonable, write yes. If not, write no and provide a reasonable estimate.

$$\underline{22.8} \times \underline{4.7} = 107.16$$

$$23 \times 5$$

$$115 \text{ yes}$$

~~no~~

$$2.1 \times 4.9 \times 7.2 = 105.84$$

$$2 \times 5 \times 7$$

$$10 \times 7$$

$$70 \text{ no}$$