Multiplying a Decimal by a Decimal

Rule:

When multiplying decimals, multiply as usual. Then, beginning at the right, count the total number of decimal places in both factors and count off that many decimal places in the product.

Examples:

$$\begin{array}{c}
2.48 (2) \\
\times .192 (3) \\
\hline
496 \\
2232 \\
+248 \\
\hline
.47616 (5)
\end{array}$$

Class Practice → 085.ENT1150 d

1. Write the number of decimal places in the product. Do not multiply.

2. Multiply. Position the decimal point in the product correctly. (For additional practice, see Supplementary Exercises, p. 338.)

b.
$$3.51$$
 c. $.902$ **d.** 0.23 **e.** $.042$ $\times .72$ $\times .15$ $\times .16$ $\times .37$

3. Fill in the blanks.

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- 4. Solve these story problems.
 - **a.** Miss Houston bought a $14\frac{3}{4}$ pound turkey at \$.84 per pound. What was the cost of the turkey?
- **b.** The instructions said to cook the turkey 20 minutes per pound. How long should Miss Houston cook the turkey?

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Examples:

.9 (1) or
$$\frac{9}{10} \times \frac{9}{10}$$
 6.2 (1) $\times .9$ (1) $\frac{81}{100} = .81$ $\frac{2.38}{496}$ (2) $\frac{186}{2.356}$ (3)

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\times .192 (3) \\
\hline
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b. 931 143,296 . Class Practice

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