# 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:**

$$\begin{array}{r}
 \times .192 \\
 \hline
 496 \\
 2232 \\
 +248 \\
 \hline
 .47616 (5)
\end{array}$$

#### Class Practice b 931 143 296 -

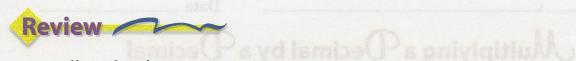
1. Write the number of decimal places in the product. Do not multiply.

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.

- 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?



#### 5. Follow the signs.

- **a.** 9.32 4.76 +16.05
- **b.** 432.6
- c. .16

#### 6. Change to improper fractions.

- **b.**  $6\frac{1}{5} =$  **c.**  $9\frac{4}{7} =$  **d.**  $7\frac{2}{9} =$  **e.**  $11\frac{4}{11} =$

#### 7. Divide and check by casting out 9s.

- a. 23 784.026
- **b.** 931 143,296 **c.** 832 753,792

## 8. Write true or false in the blank.

- **a.** \_\_\_\_\_ A meter measures length.
- **b.** \_\_\_\_\_ A gram measures mass.
- **c.** \_\_\_\_\_ A liter holds less than 1 quart.
- **d.** \_\_\_\_\_ A kilometer is about  $\frac{1}{2}$  mile.

#### 9. Find the number of coins.

Misty has \$2.35 in dimes and nickels. She has I less nickel than dimes. How many of each coin does she have?



### 10. Write the Arabic numerals.

- a. CMXXXVIII
- b. DCCCXXIV \_\_\_\_ c. MMCCCXVI \_\_\_\_
- d. MDCCLXXVI
- e. CDLXXXVI
- CMXLVIII

- XXVII \_\_\_\_
- LXIX \_\_\_\_ h.
- DCXCVIII

# omework

Lesson 90, homework section