

EXAMPLES Multiply Decimals

MAIN IDEA

- Estimate and find the product of decimals and whole numbers.

1 Find 18.9×4 .

METHOD 1 Use estimation.

Round 18.9 to .

$18.9 \times 4 \rightarrow$ $\times 4$ or

$$\begin{array}{r} 33 \\ 18.9 \\ \times 4 \\ \hline \end{array}$$

Since the estimate is , place the decimal point after the .

1 Find 0.56×7 .

METHOD 2 Count decimal places.

$$\begin{array}{r} 0.56 \\ \times 7 \\ \hline \end{array}$$

decimal places

Count decimal places from the right.

EXAMPLES Annex Zeros in the Product

1 Find 3×0.016 .

$$\begin{array}{r} 0.016 \\ \times 3 \\ \hline \end{array}$$

decimal places

Annex a zero on the left of 48 to make decimal places.

FOLDABLES™

ORGANIZE IT

Under Lesson 3-6 of your Foldable, write how to estimate the product of a whole number and a decimal. Include at least one example in which you must annex a zero in the product.

Chapter 3:
Operations
with
Decimals

4 ALGEBRA Evaluate $5g$ if $g = 0.0091$.

$$5g = 5 \times \boxed{}$$

Replace g with $\boxed{}$.

$$\begin{array}{r} 0.0091 \\ \times \quad 5 \\ \hline \end{array}$$

 $\leftarrow \boxed{}$ decimal places

Annex a zero to make $\boxed{}$ decimals.**Check Your Progress****a.** Find 12.6×8 .
b. Find 0.83×4 .
c. Find 4×0.023 .
d. Evaluate $3x$ if

$x = 0.0062$.

EXAMPLE Multiply by 10, 100, or 1,000**5 MENTAL MATH** Find 3.25×100 .

Move the decimal point to the right the same number of zeros that are in 100, or $\boxed{}$ places.

$$3.25 \times 100 = 3.\underline{25} \text{ or } \boxed{}$$

Check Your Progress**MENTAL MATH** Find $2.4 \times 1,000$.
**HOMEWORK
ASSIGNMENT**

Page(s):

Exercises: