

Multiplying Decimals: Shifting the Decimal Point

Lesson 6-9

DATE

TIME



Solve Problems 1–3 using the following method:

Step 1: Multiply both factors by a power of 10 to make them whole numbers.

Step 2: Multiply the whole numbers.

Step 3: Undo the multiplication by powers of 10 by dividing the product by the same powers of 10.

1 $76.1 * 9.6 = ?$

a. $76.1 * 10^{\boxed{1}} = \underline{761}$ $9.6 * 10^{\boxed{1}} = \underline{96}$

b. Answer to whole-number problem: $\underline{73,056}$

c. Answer to decimal problem: $76.1 * 9.6 = \underline{730.56}$

2 $189.6 * 1.75 = ?$

a. $189.6 * 10^{\boxed{1}} = \underline{1,896}$ $1.75 * 10^{\boxed{2}} = \underline{175}$

b. Answer to whole-number problem: $\underline{331,800}$

c. Answer to decimal problem: $189.6 * 1.75 = \underline{331.8}$

3 $5.6 * 0.8 = ?$

a. $5.6 * 10^{\boxed{1}} = \underline{56}$ $0.8 * 10^{\boxed{1}} = \underline{8}$

b. Answer to the whole-number problem: $\underline{448}$

c. Answer to decimal problem: $5.6 * 0.8 = \underline{4.48}$