

Multiplying Decimals: Shifting the Decimal Point

Lesson 6-9

DATE

TIME

SRB
100, 102,
133, 135

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. $76.1 * 10^{\square} = \underline{\hspace{2cm}}$ $9.6 * 10^{\square} = \underline{\hspace{2cm}}$

b. Answer to whole-number problem: $\underline{\hspace{2cm}}$

c. Answer to decimal problem: $76.1 * 9.6 = \underline{\hspace{2cm}}$

2 $189.6 * 1.75 = ?$

a. $189.6 * 10^{\square} = \underline{\hspace{2cm}}$ $1.75 * 10^{\square} = \underline{\hspace{2cm}}$

b. Answer to whole-number problem: $\underline{\hspace{2cm}}$

c. Answer to decimal problem: $189.6 * 1.75 = \underline{\hspace{2cm}}$

3 $5.6 * 0.8 = ?$

a. $5.6 * 10^{\square} = \underline{\hspace{2cm}}$ $0.8 * 10^{\square} = \underline{\hspace{2cm}}$

b. Answer to the whole-number problem: $\underline{\hspace{2cm}}$

c. Answer to decimal problem: $5.6 * 0.8 = \underline{\hspace{2cm}}$