Name _____ Date _____ Class _____

Skills Readiness

Multiply Decimals

General Operation Reminders	
Multiplying Decimals	**Multiplying by Powers of 10**
Step 1: Rewrite the problem vertically. Step 2: Multiply the numbers just as you would multiply whole numbers. Step 3: Count the total number of decimal places in the two factors. Step 4: The product must have the same number of decimal places as the total found in Step 3. You may need to add zeros as placeholders.	Step 1: Count the number of zeros in the power of 10. Step 2: Move the decimal point in the other factor to the right the same number of places as the number you counted in Step 1.
Example 1: Multiply 9.27×0.6. $$\begin{array}{r} \overset{1\,4}{9.27} \\ \times\ \ 0.6 \\ \hline 5.562 \end{array}$$ Total of 3 decimal places → 9.27 Also needs 3 decimal places ← 5.562	Example 2: Multiply 0.735×100. There are two zeros in the power of 10, so move the decimal point in 0.735 two places to the right and drop the zero. $0.735 \longrightarrow 73.5$

Practice on Your Own
Multiply.

1. 0.5×0.9 **2.** 4.2×0.3 **3.** 1.3×1.3 **4.** 7.3×0.25

_____   _____   _____   _____

5. 0.4×5.62 **6.** 2.5×0.065 **7.** 5.62×10 **8.** 0.493×100

_____   _____   _____   _____

Check
Multiply.

9. 0.2×0.7 **10.** 7.9×0.5 **11.** 2.2×2.2 **12.** 0.36×6.1

_____   _____   _____   _____

13. 3.5×0.071 **14.** 96×0.1 **15.** 4622×100 **16.** 0.09×10

_____   _____   _____   _____

Holt McDougal Algebra 1