## Lesson 17: Multiply Decimals and Whole Numbers

* Let’s multiply whole numbers by tenths and hundredths.

### Warm-up: True or False: Place Value Products

Decide if each statement is true or false. Be prepared to explain your reasoning.

* $100×0.01=1$
* $10×0.1=0.01$
* $10×0.01=0.1$

### 17.1: Multiply Decimals By Whole Numbers



Find the value of each expression in a way that makes sense to you. Explain or show your reasoning. Use the grids, if needed.

1. $2×0.7$
* 
1. $2×0.08$
* 
1. $2×0.78$
* 

### 17.2: Using Whole Number Products

1. Find the value of each expression. Explain or show your reasoning.
	1. $3×0.5$
	2. $5×0.3$
	3. $7×0.02$
2. Kiran wrote this explanation to describe the strategy he used to multiply a whole number by some tenths:
* “I just turn the numbers into whole numbers, multiply them, and call them tenths.” (Pause for teacher directions.)
1. Can you use Kiran’s reasoning to find the value of $6×0.07?$ Explain your reasoning.



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