Multiplying Decimals and Whole Numbers

How do we multiply decimal numbers and whole numbers without using hundreds grids?

- 1. Multiply as though you were multiplying two whole numbers.
- 2. Count the number of digits after the decimal point in the decimal factor.
- 3. Place the decimal point in the answer so that the answer has the same
- number of decimal place values as your decimal factor.



Multiplying Decimals Numbers with Decimal Numbers











Let's apply this pattern to solve multiplication problems with decimal numbers!



Solve: Mrs. Taylor runs at pace of 9.25 minutes per mile. If she stayed at this pace the entire time, how long would it take her to run a half marathon of 13.1 miles?



Solve. Oranges cost \$3.29 per pound. Apples cost \$2.89 per pound. You buy 1.8 pounds of oranges and 2.3 pounds of apples. Which costs you more, the apples or the oranges?

