How do you multiply decimals?

Example

0.8 x 65.4

<u>Step 1</u> - Change the decimals to whole numbers.

654 <u>x 8</u> 5232

<u>Step 2</u> - Estimate the product by rounding each factor to the nearest whole number or benchmark fraction/decimal (, $\frac{1}{2}$, 0.5). 0.8 \approx 1 and 65.4 \approx 65

1 x 65 = 65

<u>Step 3</u> - Insert a decimal into the product in step 1 that is closest to the estimate in step 2.

52.32 is the closest decimal to 65. Therefore $0.8 \times 65.4 = 52.32$