

Correct. Regroup: $\left(\frac{4.2}{5.6}\right) \left(\frac{10^{-12}}{10^6}\right)$

Divide the numbers: $(0.75) \left(\frac{10^{-12}}{10^6}\right)$

Use the Quotient Rule: $0.75 \times 10^{-12-6} = 0.75 \times 10^{-18}$

Convert 0.75 into scientific notation, regroup, and use the product rule:

$$7.5 \times (10^{-1} \times 10^{-18}) = 7.5 \times 10^{-1+(-18)} = 7.5 \times 10^{-19}$$