

Correct. Regroup and divide: $\left(\frac{3}{6}\right)\left(\frac{10^8}{10^{-7}}\right) = (0.5)\left(\frac{10^8}{10^{-7}}\right)$

Use the quotient rule: $(0.5) \times 10^{8-(-7)} = (0.5) \times 10^{15}$

Convert 0.5 into scientific notation, regroup, and use the product rule:

$$5 \times (10^{-1} \times 10^{15}) = 5 \times 10^{-1+15} = 5 \times 10^{14}$$