Regroup: $(5.2 \times 6.5) (10^{15} \times 10^{-8})$ Multiply the numbers: $(33.8) (10^{15} \times 10^{-8})$ Use the product rule: $33.8 \times 10^{15+(-8)} = 33.8 \times 10^{7}$ Convert 33.8 into scientific notation: $(3.38 \times 10^{1}) \times 10^{7}$ Regroup and use the product rule: $3.38 \times (10^{1} \times 10^{7}) = 3.38 \times 10^{1+7} = 3.38 \times 10^{8}$