QT Standard Form

1. Write 76000 in standard form

2. Write $3 \, x \, 10^{-5}$ as an ordinary number

3. Write $860 \, x \, 10^{4} \; in$ standard form

4. Write $7 \, x \, 10^{6}$ as an ordinary number

5. Write these numbers in order of size. Start with the smallest number.
   $3 \, x \, 10^{8}$, $32 \, x \, 10^{6}$, $0.034 \, x \, 10^{10}$, $3400 \, x \, 10^{5}$

6. Work out the value of $6 \, x \, 10^{7}$ x $5 \, x \, 10^{3}$

7. Work out the value of $1.04 \, x \, 10^{3} \div 2 \, x \, 10^{-5}$

8. The number of atoms in one kilogram of helium is $1.53 \, x \, 10^{26}$. Calculate the number of atoms in 30 kilograms of helium. Give your answer in standard form.