Calculating Molar Mass and Particle Number

Determine the molar mass for the following compounds/molecules:

1. $NaCl$
2. O_2
3. Fe_2O_3
4. Na_2O
5. $Ca(NO_3)_2$

Formulas:

$N = nN_A$

$n = \frac{m}{M}$

N = # of particles
n = moles (mol)
N_A = Avogadro's number
M = molar mass (g/mol)
m = mass (g)

How many particles are in 310 grams of Na_2O?

How many grams are in 18.06×10^{25} particles of $Ca(NO_3)_2$?

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