

1. A human hair is 0.0889 mm thick. Lithium atoms have a diameter of 182 pm. How many lithium atoms can be laid across a human hair?

2. How many electrons are in $^{40}\text{Ca}^{+2}$, calcium ion?

3. What do $^{19}\text{F}^-$, ^{20}Ne and $^{23}\text{Na}^+$ all have in common?

4. Name these polyatomic ions

$\text{CH}_3\text{COO}^{-1}$ _____

CO_3^{-2} _____

HCO_3^{-1} _____

CN^{-1} _____

5. Name these polyatomic ions:

ClO^{-1} _____

ClO_2^{-1} _____

ClO_3^{-1} _____

ClO_4^{-1} _____

6. Name these polyatomic ions:

$\text{Cr}_2\text{O}_7^{-2}$ _____ CrO_4^{-2} _____

MnO_4^{-1} _____ N_3^{-1} _____

7. What is the correct formula for the following compounds:

Sodium dichromate _____

Na_2O_2 _____

Magnesium permanganate _____

CuO _____

Potassium azide _____

LiF _____

Iron(III) chromate _____

NH_4Cl _____

$\text{Ca}(\text{NO}_3)_2$ _____

