

The atomic mass unit

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1. Convert the following masses into atomic mass units
 - (a) 1 kg
 - (b) 300 g
 - (c) 1.6×10^{-28} kg
2. Calculate the masses, in kg, of
 - (a) the electron
 - (b) a hydrogen atom
 - (c) a carbon-12 atom
3. Calculate the energy equivalence of the following, in joules
 - (a) 5 kg
 - (b) 12 g
 - (c) 2.5×10^{-27} kg
4. Convert the masses in question 3 into atomic mass units.
5. Convert the answers in question 4 into MeV.