Models of the Atom: Understanding the Main Ideas

Decide which model of the atom each of the following sentences describes. Then fill in the blank before each sentence according to the following key:
DM = Democritus
DL = Dalton
R = Rutherford
T = Thomson
B = Bohr
EC = Electron Cloud
If a sentence seems to describe more than one atomic model, choose the model that first pictured the atom this way.
1. Atoms are small, hard particles.
2. An atom contains negatively charged particles called "corpuscles."
3. Atoms of the same element are exactly alike.
4. In an atom, electrons move in definite orbits around the nucleus, much like
planets circle the sun.
5. An atom is the smallest piece of matter.
6. An atom is mostly empty space with a dense, positively charged nucleus in the
center.
7. Atoms are indivisible.
8. An atom has a small, positively charged mucleus surrounded by a large region in
which scientists can predict where an electron is likely to be found.
9. An atom is made of positively charged, puddinglike material through which
negatively charged particles are scattered.
10. In an atom, electrons are located in energy levels that are a certain distance
from the nucleus.
Write five facts about the term nucleus, using the following words as cues.
1. Size
2. Location
3. Rutherford
4. Charge
5. Density