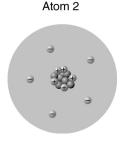
What Is the Atomic Theory?

Lesson 6 Quiz

Samir drew two atoms as shown in the following illustration.

Atom 1



Which statement is **true**?

- A They are atoms of two different elements.
- **(B)** They are both atoms of the same element.
- Atom 1 has a positive charge, and atom 2 has a negative charge.
- (D) Atom 2 has a positive charge, and atom 1 has a negative charge.
- Atoms are made up of smaller particles called subatomic particles. Which is a subatomic particle that has no charge?
 - (F) electron
- (H) nucleus
- (G) neutron
- proton
- 3 Every atom has a center called the nucleus. The nucleus has a positive charge. Which particles are found in the nucleus?
 - (A) neutrons only
 - (B) protons only
 - © electrons and protons
 - **D** neutrons and protons

4 The following table describes four different atoms.

	Number of electrons	Number of neutrons	Number of protons
Atom 1	8	8	8
Atom 2	8	10	8
Atom 3	10	8	7
Atom 4	10	9	8

Which is **true**?

- (F) Each atom is a different element.
- **(G)** Only atoms 3 and 4 are the same element.
- (H) Atom 3 is a different element from all the others.
- Atom 4 is a different element from all the others.
- A scientist is examining two atoms. One has a nucleus with five protons and five neutrons surrounded by five electrons. The other has a nucleus with five protons and six neutrons surrounded by five electrons. What can the scientist conclude about these two atoms?
 - A They have different charges.
 - (B) They are the same element.
 - (C) They are not made of matter.
 - (D) They cannot form compounds.