



Intro to Chemistry Test - Lesson 2 – Structure of the Atom - Answer Key Page 1

1. What is the center of an atom called?

- (A) the ring
- (B) the nucleus**
- (C) the electron
- (D) the atomic center

The correct answer is B.

2. Which statement about the atom is untrue?

- (A) Electrons circle around the nucleus.
- (B) The path taken by electrons circling the nucleus is called a "ring."
- (C) The ring is imaginary.
- (D) The electrons are larger than the nucleus.**

The correct answer is D. Electrons are extremely tiny and weigh very little compared to the nucleus.

3. Which statement about hydrogen and helium is untrue?

- (A) Helium has two electrons and hydrogen only one.
- (B) Hydrogen can explode but helium cannot.
- (C) Hydrogen weighs more than helium.**
- (D) Both hydrogen and helium can lift zeppelins.

The correct answer is C. With two electrons to hydrogen's one, helium is heavier than hydrogen.

4. Which of the following reasons is not why the Hindenburg zeppelin exploded?

- (A) The Hindenburg was filled with helium.**
- (B) The Hindenburg was struck by a spark during a lightning storm.
- (C) Hydrogen was used instead of helium to lift the Hindenburg.
- (D) Hydrogen can explode.

The correct answer is A. The Hindenburg was filled with hydrogen because it's lighter than helium and is thus better at lifting heavy objects like zeppelins and blimps. However, hydrogen is too risky because it can explode.