



Name _____ Class _____ Date _____

1 Using the diagram below, determine which **two atoms** have the same **atomic number**.

- A 3 and 4
- B 1 and 3
- C 2 and 3
- D 2 and 4



2 Using the diagram below, determine which **two atoms** are **isotopes** of each other.

- A 1 and 3
- B 2 and 4
- C 2 and 3
- D 1 and 4



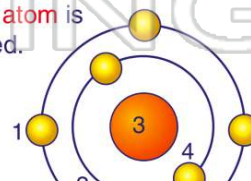
3 Using the diagram below, determine the **mass number** of atom #4.

- A 1
- B 9
- C 10
- D 19



4 Using the diagram below, determine which **area** of the **atom** is **positively** charged.

- A 1
- B 2
- C 3



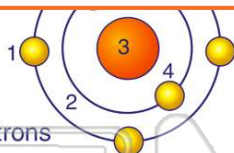
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electrons

- B only protons
- C neutrons and electrons
- D protons and neutrons



- B different atomic numbers but the same atomic mass
- C the same atomic number but different atomic masses
- D the same number of neutrons

9 This diagram illustrates a **cloud** of **electrons** around the **nucleus**. This represents _____ model of the atom.

- A Bohr's
- B Rutherford's
- C Dalton's
- D the modern



10 The diagram below is a modern model of an atom. Why are **no electron orbits** drawn?

- A electrons move in many different directions
- B orbits are there but not visible
- C the orbits are not perfectly round
- D the electrons have been drawn into the nucleus





ANSWER KEY

Using the diagram below, determine which **two atoms** have the same **atomic number**.

- A 3 and 4
- B 1 and 3
- C 2 and 3
- D 2 and 4



(b)

Using the diagram below, determine which **two atoms** are **isotopes** of each other.

- A 1 and 3
- B 2 and 4
- C 2 and 3
- D 1 and 4



(a)

Using the diagram below, determine the **mass number** of atom #4.

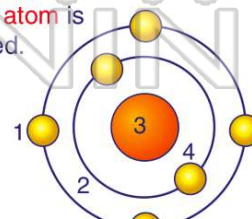
- A 1
- B 9
- C 10
- D 19



(d)

Using the diagram below, determine which **area** of the **atom** is **positively** charged.

- A 1
- B 2
- C 3
- D 4



(c)



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- C neutrons and electrons
- D protons and neutrons



- C the same atomic number but different atomic masses
- D the same number of neutrons

This diagram illustrates a **cloud** of **electrons** around the **nucleus**. This represents _____ model of the atom.

- A Bohr's
- B Rutherford's
- C Dalton's
- D the modern



(d)

The diagram below is a modern model of an atom. Why are **no electron orbits** drawn?

- A electrons move in many different directions
- B orbits are there but not visible
- C the orbits are not perfectly round
- D the electrons have been drawn into the nucleus



(a)