

Solutions

Each answer shows the steps, then the **result**.

2.1

- In the number of neutrons (same protons, different mass)

2.2

- $0.60(10) + 0.40(11) = 10.4 \text{ u}$

2.3

- Its relative abundance

2.4

- $0.5(20) + 0.5(22) = 21 \text{ u}$

3.1 B

- the same number of protons

3.2 B

- $0.90(20) + 0.10(22) = 20.2$

3.3

(a)

- $0.20(10) + 0.80(11) = 10.8 \text{ u}$

(b)

- Closer to boron-11, since it is more abundant

3.4

(a)

- $0.69(63) + 0.31(65) = 63.6 \text{ u}$

(b)

- Copper (Cu)