element | oxygen | masses | neutrons | atomic mass
mass number | protons | hydrogen | proton or neutron
amu (atomic mass unit)

Lesson Review

Complete the following.

1. The total mass of the protons and neutrons in an atom is called the _____ .
2. One amu is equal to the mass of one _____.
3. The element _____ has a mass number and atomic number of one.
4. The total number of _____ in an atom is determined by subtracting the atomic number from its mass number.
5. Neutrons and _____ have the same mass.
6. The total number of protons and neutrons in the nucleus of an atom is called the _____.
7. The mass of an atom is measured in _____.
8. Each _____ has its own mass number.
9. Since atoms of different elements have different numbers of protons and neutrons, their _____ are also different.
10. The element _____ has an atomic number of 8 and a mass number of 16.

Skill Challenge

***Skills:** synthesizing, comparing*

Use the table to answer the following questions.

Element	Atomic Number	Mass Number
Helium	2	4
Sodium	11	23
Iron	26	56
Gold	79	197
Lead	82	207

1. How many neutrons are in an atom of helium? _____
2. How many protons are in an atom of iron? _____
3. How many neutrons are in an atom of lead? _____
4. How many electrons are in an atom of sodium? _____
5. Which element has 87 electrons in one of its atoms? _____