

You have a small sample of iron, which you learn is made up of several isotopes.

Isotope	Atomic Number	Atomic Mass	Protons	Neutrons	Electrons
Fe-55	_____	_____	_____	_____	_____
Fe-56	_____	_____	_____	_____	_____
Fe-57	_____	_____	_____	_____	_____

Your sample includes:

- 10 atoms of iron-55
- 40 atoms of iron-56
- 3 atoms of iron-57

Find the average atomic mass of this iron sample. Show all work.

Answer \_\_\_\_\_

You have a small sample of magnesium, which you learn is made up of several isotopes.

Isotope	Atomic Number	Atomic Mass	Protons	Neutrons	Electrons
Mg-23	_____	_____	_____	_____	_____
Mg-24	_____	_____	_____	_____	_____
Mg-25	_____	_____	_____	_____	_____

Your sample includes:

- 5 atoms of Mg-23
- 100 atoms of Mg-24
- 40 atoms of Mg-25

Find the average atomic mass of this magnesium sample. Show all work.

Answer \_\_\_\_\_