

# Isotopes Practice Set

- What does "atomic number" mean?
- What does the number next to isotopes mean?
- How do you tell isotopes apart?

For each of the following isotopes, write the number of protons, neutrons, and electrons.

	Chlorine-35	Chlorine-37
# of protons	17	17
# of neutrons	18	20
# of electrons	17	17

  

	Neon-20	Neon-22
# of protons	10	10
# of neutrons	10	12
# of electrons	10	10

	Carbon-12	Carbon-13
# of protons	6	6
# of neutrons	6	7
# of electrons	6	6

  

	Sulfur-32	Sulfur-34
# of protons	16	16
# of neutrons	16	18
# of electrons	16	16

Fill in the missing names and/or missing subscripts including isotopes including atomic numbers from the chart. Use your periodic table and the information provided.

	Isotope: $^{35}_{17}\text{Cl}$	Isotope: $^{20}_{10}\text{Ne}$
# of protons	17	10
# of neutrons	18	10
# of electrons	17	10

	Atom: $^{12}_{6}\text{C}$	Atom: $^{13}_{6}\text{C}$
# of protons	6	6
# of neutrons	6	7
# of electrons	6	6

	Carbon: $^{12}_{6}\text{C}$	Carbon: $^{13}_{6}\text{C}$
# of protons	6	6
# of neutrons	6	7
# of electrons	6	6

	Carbon: $^{12}_{6}\text{C}$	Carbon: $^{13}_{6}\text{C}$
# of protons	6	6
# of neutrons	6	7
# of electrons	6	6

# Isotope Practice Set Answer Key

**YCT Expert Team**



## Isotope Practice Set Answer Key:

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John W. Valley, David R. Cole, 2018-12-17 Volume 43 of Reviews in Mineralogy and Geochemistry follows the 1986 Reviews in Mineralogy Vol 16 in approach but reflects significant changes in the field of Stable Isotope Geochemistry In terms of new technology new sub disciplines and numbers of researchers the field has changed more in the past decade than in any other since that of its birth Unlike the 1986 volume which was restricted to high temperature fields this book covers a wider range of disciplines However it would not be possible to fit a comprehensive review into a single volume Our goal is to provide state of the art reviews in chosen subjects that have emerged or advanced greatly since 1986 This volume was prepared for Short Course on Stable Isotope Geochemistry presented November 2 4 2001 in conjunction with the annual meetings of the Geological Society of America in Boston Massachusetts     *NUREG/CR*. U.S. Nuclear Regulatory Commission, 1978

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