

35.6: General Questions

1. Based on the half-life for each color on the cubes, which of these substances, red, black, or white, do you think would be the most harmful? Why?
2. The abundance of Carbon-14 in our atmosphere is 1 atom of Carbon-14 per Trillion (1012) atoms. Analyze our model of bean samples compared to what is found in nature. Do you think these model samples a good representation of real samples? Explain.
3. Two rocks are found at different levels in the Earth. Both contain the isotope $^{210}_{82}\text{Pb}$. However, one rock contains 1/128th the amount of this isotope as the other rock. What is the difference in the age of these rocks? The half-life of $^{210}_{82}\text{Pb}$ is 20.4 years.

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