

Half Life Calculations Practice

2 pages + 2-page Answer Key

HALF-LIFE CALCULATIONS

1. Radioiodine has a half-life of 8 days. If you start with 40 grams of radioiodine, how much will remain after 16 days?

2. If the half-life of Iodine-131 is 8 days, how much of a 320 gram sample will remain after 16 days?

3. If the half-life of Iodine-131 is 8 days, how long will it take for 320 grams of Iodine-131 to decay to 1/8th of the original amount?

4. The half-life of Iodine-131 is 8 days. How long will it take for 320 grams of Iodine-131 to decay to 1/8th of the original amount?

5. Radioiodine has a half-life of 8 days. If you start with 40 grams, how much will remain after 16 days?

6. If the half-life of Iodine-131 is 8 days, how long will it take for 320 grams of Iodine-131 to decay to 1/8th of the original amount?

HALF-LIFE CALCULATIONS

1. Radioiodine has a half-life of 8 days. If you start with 40 grams of radioiodine, how much will remain after 16 days?

2. If the half-life of Iodine-131 is 8 days, how much of a 320 gram sample will remain after 16 days?

3. If the half-life of Iodine-131 is 8 days, how long will it take for 320 grams of Iodine-131 to decay to 1/8th of the original amount?

$1 \rightarrow \frac{1}{2} \rightarrow \frac{1}{4} \rightarrow \frac{1}{8}$ so 3 half-lives, or 24 days, or 4 half-lives is 32 days, or 32 days.

4. The half-life of Iodine-131 is 8 days. How long will it take for 320 grams of Iodine-131 to decay to 1/8th of the original amount?

$320 \rightarrow 160 \rightarrow 80$ so 2 half-lives, or 16 days, or 2 half-lives is 16 days, or 16 days.

5. Radioiodine has a half-life of 8 days. If you start with 40 grams, how much will remain after 16 days?

$40 \rightarrow 20 \rightarrow 10$ so 2 half-lives, or 16 days, or 2 half-lives is 16 days, or 16 days.

6. If the half-life of Iodine-131 is 8 days, how long will it take for 320 grams of Iodine-131 to decay to 1/8th of the original amount?

$1 \rightarrow \frac{1}{2} \rightarrow \frac{1}{4} \rightarrow \frac{1}{8}$ so 3 half-lives, or 24 days, or 4 half-lives is 32 days, or 32 days.

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