

1. Define half-life. *(1 mark)*
2. How is the half-life of a radioisotope similar to a sporting tournament in which the losing team is eliminated? *(2 marks)*
3. The half-life of radium-226 is 1600 years. If a sample of radium-226 has an original activity of 200 Bq, what will its activity be after 4800 years? *(2 marks)*
4. Sodium-24 has a half-life of 15 hours. If a sample of sodium-24 has an original activity of 500 Bq, what will its activity be after 60 hours? *(2 marks)*
5. After 42 days the activity of a sample of phosphorus-32 has decreased from 400 Bq to 50 Bq. What is the half-life of phosphorus-32? *(2 marks)*
6. The half-life of radon-222 is 3.8 days. What was the original activity if it has an activity of 10 Bq after 7.6 days? *(2 marks)*
7. The half-life of thorium-227 is 19 days. How many days are required for 75% of a sample to decay? *(2 marks)*
8. The half-life of protactinium-234 is 6.75 hours. What percentage of a sample will remain after 27 hours? *(2 marks)*
9. A rock once contained 1.0 mg of uranium-238, but now contains only 0.25 mg. Given that the half-life for uranium-238 is 4.5×10^9 (4.5 billion) years, how old is the rock? *(2 marks)*
10. The half-life of tritium (hydrogen-3) is 12.3 years. If 48.0 mg of tritium is released from a nuclear power plant during the course of a mishap, what mass of the sample will remain after 49.2 years? *(2 marks)*

Total marks: 19

Half Life Calculations Instructional Fair

Minjie Lin



Half Life Calculations Instructional Fair:

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