

Activity

1 Becquerel is how many radioactive nuclei decay in one second.



1.
A radioactive source has an activity of 90 Becquerels.

How many radioactive nuclei decay in 15 seconds?

1350

2.
A radioactive source has an activity of 200,000 Becquerels.

How many radioactive nuclei decay in 2 minutes?

24,000,000

3.
A radioactive source has an activity of 30 MBq.

How many radioactive nuclei decay in 20 seconds?

600,000,000

4.
A radioactive substance has an activity of 80MBq.

How many radioactive nuclei decay in 10 minutes?

48,000,000,000

5.
A radioactive substance has an activity of 70 kBq.

How many radioactive nuclei will decay in 60 seconds?

4,200,000

6.
A radioactive substance has an activity of 4 MBq.

How many radioactive nuclei will decay in 1 hour?

14,400 million