**HALF-LIFE ACTIVITY**

In this activity, you will explore the half-life of a radioactive substance, X.

1. Empty the bag on the desk.
2. Place all of the squares with ‘X’ up to the side.
3. Record the number of squares remaining.
4. Return the remaining squares to the bag and repeat steps # 1 – 4 to complete the chart.

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| --- | --- |
| **Trial #** | **Squares Remaining** |
| 0 | 100 |
|  |  |
|  |  |
|  |  |
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|  |  |

1. Determine the decay rate of your data set.
2. Graph the data on the grid below:

grid

1. Determine the type of relationship and write an equation to describe it.