$\qquad$

## The maximum number times Friday the $13^{\text {th }}$ can occur in a year is...

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |


| The $\mathbf{1 3}{ }^{\text {th }}$ of | Corresponding <br> Day of Year | Appears in <br> Column |
| :---: | :---: | :---: |
| JAN |  |  |
| FEB |  |  |
| MAR |  |  |
| APR |  |  |
| MAY |  |  |
| JUN |  |  |
| JUL |  |  |
| AUG |  |  |
| SEP |  |  |
| OCT |  |  |
| NOV |  |  |
| DEC |  |  |

## Analysis Questions

Answer the following on a separate sheet of loose-leaf paper providing a complete explanation of how you arrived at your answer to the following questions. Be sure to use complete, grammatically correct sentences.

1. Explain why it is not necessary to write out the entire chart to predict into which column a number falls.
2. Explain how you find the corresponding day of the year for the $13^{\text {th }}$ of each month without counting completely.
3. Explain/Describe how a leap year affects the charts were constructed.
4. Explain why it is impossible to avoid having a Friday the $13^{\text {th }}$ in any given year.
5. What is the most number of Friday the $13^{\text {th }}$ s possible in any given year? What is the fewest?
