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**Source**: B.H. Brown, American Mathematical Monthly Volume 40, Number 10 (1933), page 607

Our calendar, the Gregorian, works on a cycle of 400 years

- Every 4th year is a leap year
- Only one of every four century years are leap years
  - 1600, 2000, 2400, ... YES
  - 1700, 1800, 1900, 2100, 2200, 2300, ... NO
- 400 years is exactly 20,871 weeks
- November 4 2011 is same day of week as November 4 2411, and November 13 2811, ...

There are 4800 13th-of-the-months in any span of 400 years:

- Monday: 685
- Tuesday: 685
- Wednesday: 687
- Thursday: 684
- Friday: 688
- Saturday: 684
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So 13th is (slightly) more likely to be Friday than any other day!