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## Day of the Date

## Finding Numbers of Months

Century offset calculation (Gregorian Calendar):
Step1 :Take the first two digit of the given year.
Step2 :Calculate the next highest multiple of 4 for the first two digit number.
Step3:Subtract 1 from the number.
Step4:Then, subtract the first two digit of the given year
Step5 :Finally, multiply the resultant value with 2.

## Example:

Calculate centruy offset for 1900s century.
Let us take the first two digit 19.
The next highest multiple of 4 for the first two digit number 19 is 20 .
Subtract 1 from the number. i.e. 20-1
Subtract the first two digit of the given numberi.e ((20-1)-19)
Finally, multiply the resultant value with 2 ..
1900s $=((20-1)-19) * 2=0$.
Below given Gregorian Century Offsets table shows the other century and offset values,

## Century Offset

$300,700,1100,1500,1900$, etc. 0
$400,800,1200,1600,2000$, etc. 6
$100,500,900,1300,1700$, etc. 4
(200, 600, 1000, 1400, 1800, etc. 2

## Find the Month Offset:

Consider there are 4 weeks in a month, which means $4 x 7=28$ days. January has 31 days. The days remaining are $31-28=3$. The reminder helps you in calculating the numbers for each month.
Initially, Take Jan as 0
February $=($ Number of days in Jan + Remaining days in Jan $) / 7)=(31+0) / 7=3$
March $=($ Number of days in Feb + Remaining days in Feb $) / 7)=(28+3) / 7=3$
April $=($ Number of days in Mar + Remaining days in Mar $) / 7)=(31+3) / 7=6$
Continue the same process till December... The numbers for the months are,




