Program 1: Easter Program

Save the following program as: EasterVariation2.java

The date of Easter Sunday can vary widely from year to year. The council of Nicaea in A.D. 325 decreed that Easter Sunday was to be held on the first Sunday following the full moon that occurred on solar, lunar, and calendar cycles, it is not easy to find an arithmetic procedure that will determine the correct date for any given year. One such procedure was covered in the content of this activity. Another procedure is given below and it also involves a sequence of arithmetic operations that start with the year and eventually produce a month number (3 for March, 4 for April) and the day of the month.

|  |  |  |  |
| --- | --- | --- | --- |
| Dividend | Divisor | Quotient | Remainder |
| Year | 100 | a | b |
| 3\*(a+25) | 4 | c | d |
| 8\*(a+11) | 25 | q |  |
| 5a+b | 19 |  | f |
| 19f+c-q | 30 |  | g |
| f+11g | 319 | h |  |
| 60\*(5-d)+b | 4 | j | k |
| 2j-k-g+h | 7 |  | n |
| g-h+n+114 | 31 | month | p |
| p+1 | 1 | day |  |

You can also access the long description of the table.