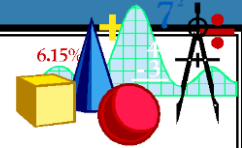


Mathematics, Algebra I

Unit IV: Lesson C3

Computer Program: Perpetual Calendar



A method was devised in 1582 for finding the day of the week for any date:

$$W = d + 2m + [3(m+1)/5] + y + [y/4] - [y/100] + [y/400] + 2$$

where d = day of the week

m = number of the month (Jan. = 13, Feb. = 14, Mar. = 3, Apr = 4, May = 5, etc.)

y = the year

Brackets mean drop the remainder and use integer only.

Test the formula and your use of it for days of recent months on a calendar then determine the day of the week for your birthday, Independence Day, the birthdays of your father, mother, and a few others.

Write a computer program to accept the data of anyone's choice and print out the day of the week.