

THE CALENDAR.

Golden Number	- - - - -	9	Dominical Letter	- - - - -	B
Eact	- - - - -	28	Roman Indiction	- - - - -	13
Solar Cycle	- - - - -	3	Julian Period	- - - - -	6583

FIXED AND MOVEABLE FESTIVALS AND ANNIVERSARIES.

New Year's Day*	- - - - -	Jan.	1	Pentecost—Whit Sunday	- - - - -	June	5
Epiphany	- - - - -	"	6	Trinity Sunday	- - - - -	"	12
Septuagesima Sunday	- - - - -	Feb.	13	Corpus Christi*	- - - - -	"	16
Quinquagesima, Shrove Sunday	- - - - -	"	27	Accession of Queen Victoria	- - - - -	"	20
St. David	- - - - -	March	1	Proclamation—	- - - - -	"	21
Ash Wednesday*	- - - - -	"	2	St. John Baptist Midsummer Day	- - - - -	"	24
Quadragesima, 1st Sunday in Lent,	- - - - -	"	6	St. Peter and St. Paul*	- - - - -	"	29
St. Patrick	- - - - -	"	17	Dominion Day	- - - - -	July	1
Annunciation, Lady Day*	- - - - -	"	25	St. Michael—Michaelmas Day	- - - - -	Sept.	29
Palm Sunday	- - - - -	April	10	All Saints—	- - - - -	Nov.	1
Good Friday*	- - - - -	"	15	Birth of Prince of Wales	- - - - -	"	9
Easter Sunday	- - - - -	"	17	First Sunday in Advent	- - - - -	"	27
St. George	- - - - -	"	23	St. Andrew	- - - - -	"	30
Low Sunday	- - - - -	"	24	Conception of the Virgin Mary*	- - - - -	Dec.	8
Rogation Sunday	- - - - -	May	22	St. Thomas	- - - - -	"	21
Birth of Queen Victoria*	- - - - -	"	24	Christmas Day*	- - - - -	"	25
Ascension Day—Holy Thursday*	- - - - -	"	26	St. John the Evangelist	- - - - -	"	27

The feasts and anniversaries marked with an asterisk (*) as well as thanksgiving or fast days fixed by proclamation, are legal holidays in the Province of Quebec.

The only legal holidays in the Province of Ontario are New Year's Day, Christmas Day, Good Friday, Easter Monday, The Queen's Birthday, and any day set apart by proclamation.

The year 5631 of the Jewish Era commences on September 26, 1870.

The year 1287 of the Mohammedan Era commences on April 3, 1870.

The 34th year of Queen Victoria's reign commences June 20, 1870.

The 95th year of the Independence of the United States commences July 4th, 1870.

The 4th year of the Dominion of Canada commences July 1st, 1870.

On pp. 2, 3, 4, of the Calendar are given the civil local times at which the upper limb of the sun appears to rise and set at a central station in Lat. 45° N. and Long. 4h. 46m. W., allowance for refraction having been applied to the true times of rising and setting.

The times of sun rise in any latitude from Lat. 40° to Lat. 50° may be found with sufficient accuracy by applying with their proper signs the corrections given in the following table.

The same corrections with their signs changed are applicable for finding the times of sunset.

LATITUDE.		42°	43°	44°	45°	46°	47°	48°	49°	50°
		m.	m.	m.		m.	m.	m.	m.	m.
January	1-15 -	-9	-6	-3	0	+3	+7	+11	+15	+19
	16-30 -	8	6	3	0	3	6	9	13	16
February	1-14 -	8	4	2	0	2	5	7	10	12
	15-28 -	4	3	1	0	1	3	5	6	8
March	1-15 -	2	1	1	0	1	1	2	3	4
	16-23 -	0	0	0	0	0	0	0	0	0
"	24-31 -	+1	+1	+0	0	-0	-1	-1	-2	-2
April	1-15 -	3	2	1	0	1	2	4	5	6
	16-30 -	5	4	2	0	2	4	6	8	10
May	1-15 -	7	5	3	0	3	5	8	11	15
	16-31 -	9	6	3	0	3	7	11	15	18
June	1-30 -	11	7	4	0	4	8	12	16	21
July	1-15 -	10	7	4	0	4	7	11	15	20
	16-31 -	9	6	3	0	3	7	10	14	18
August	1-15 -	7	5	2	0	2	5	8	10	13
	16-31 -	5	3	2	0	2	4	6	7	9
September	1-18 -	2	1	1	0	1	2	2	3	4
	19-30 -	0	0	0	0	0	0	0	0	0
October	1-15 -	-2	-2	-1	0	+1	+2	+3	+4	+5
	16-31 -	5	3	2	0	2	4	6	8	9
November	1-15 -	7	5	2	0	3	5	8	11	14
	16-30 -	9	6	3	0	3	7	10	14	18
December	1-31 -	11	7	4	0	4	8	12	16	21
LATITUDE.		41°	43°	44°	45°	46°	47°	48°	49°	50°

The corrections to the times of rising, due to the change in the declination of the sun between the times of rising in different longitudes, may be omitted as insignificant.

The times at which the moon rises are given from full to change, and the times at which she sets from change to full. They are computed for the moon's centre and for a station in Lat. 45° and Long. 4h. 46m. The corrections for Latitude applicable to the times given in the table in order to find the times at which the moon rises or sets at other stations, may be found approximately from Lat. 42° to Lat. 48°, by multiplying the numbers given in the adjoining column by the number of degrees by which the Latitude of the station exceeds 45°. The corrections for Latitudes 49° and 50°, found by the foregoing rule, will be nearer the truth, if increased respectively by 1m. and 2m.

If the Latitude of the station be less than 45°, the signs of the corrections must be changed. In strictness, two corrections for Longitude are required: one due to the motion of the moon during the interval that elapses between her rising at different stations, and the other due to the change of the moon's declination during the same interval.

The average value of the first correction is about 2m. to be added for each hour or for each fifteen degrees of Longitude west of the central meridian (Long. 4h. 46m.), the correction being subtracted when the place is east of the central meridian.

The correction due to the change in declination may, for ordinary purposes, be omitted.

The last column shows the time to which a watch should be set when the shadow from a sun dial falls on the noon mark.

THE PLANETS.

Venus is an evening star from Jan. 1 to Feb. 23, when she reaches her inferior conjunction with the sun. She then appears in the east as a morning star till she arrives at superior conjunction with the sun on Dec. 7, and becomes again an evening star.