

centre, and those on pp. 6, 7, 8, for a station in Lat. 5°, and Long. 4h. 46m. W. The corrections for latitude to be applied to the times of setting given in p. p. 6, 7, 8, of the Calendar, in order to find the times at which the Moon sets at other stations, may be found approximately from Lat. 42° to Lat. 48°, by multiplying the numbers in the adjoining column by the number of degrees by which the Latitude exceeds 45°. If the Latitude be less than 45°, the signs of the corrections must be changed. The corrections for Latitude 49° and 50° will be more near to the truth, if the multipliers (which according to the preceding rule would be 4 and 5) be taken as 4½ and 5½.

The corrections for Latitude to be applied to the times of rising are the same as those used for setting, but with the signs changed.

In strictness, two corrections for longitude are required,—one due to the motion of the moon in Right Ascension during the interval that elapses between her rising (or setting) at stations in different longitudes; and the other due to the change in the Moon's declination during the same interval. The average value of the first of these corrections is about two minutes to be added for each hour or for each fifteen degrees of

longitude west of the central meridian, 4h. 46m; the corrections being subtracted when the place is to the east of the central meridian.

The correction for change of declination may be disregarded.

The last column in each month on p. p. 6, 7, 8, shews the time to which a watch should be set when the sun is due south, or when the shadow falls on the noon mark of a sun dial.

The times of the rising and setting of the sun and moon on p. p. 6, 7, 8, without modification, will serve with sufficient exactness for Halifax, Montreal and Ottawa; and by the rules given above they may be adapted to all other stations. On p. p. 9, 10, 11, 12, 13, 14, special tables are also given, showing the local civil times at which the sun and moon rise and set at Toronto and Fort Garry, two extreme stations as regards latitude.

ECLIPSES.

There will be two eclipses of the sun in 1875. The 1st on April 5th, invisible in Canada. The second an annular eclipse of the sun on September 29th, partially visible in those parts of the Dominion which lie east of 93° W. L.

JEWISH CALENDAR FOR 1875.

5635.	1875.		5635.	1875.	
Sebat.....	Jan. 7		Ab.....	Aug. 2	
Adar.....	Feb. 5, 6		".....9	" 10	Fast—Destruction of
AdarSheni	March 7, 8		Elul....	Aug. 31	[the Temple.
" 11	" 18	Fast of Esther.	".....	Sep. 1	
" 14, 15	" 21, 22	Purim.	5636.	Sept. 30 Oct. 1	New Year's Feast.
Nissan.....	April 6	[Passover.	" 4	Oct. 3	Fast of Gedaliah.
" 15, 16	" 20, 21	First two days of.	" 16	" 9	Fast, Day of Atonem't
" 21, 22	" 26, 27	Last two days of do.	" 15, 16	" 14, 15	First 2 days of Taber-
Iyar.....	May 5, 6		" 21	" 20	Mosanna Rabs/juacles
" 18	" 23	Lag L'Omer.	" 22	" 21	Feast of Eighth Day.
Sivan.....	June 4		" 23	" 22	Feast of the Law.
" 6, 7	" 9, 10	Feast of Weeks.	Heavan. "	20, 30	
Tamuz....	July 3, 4		Kislev. "	Nov. 23, 29	
" 17	" 20	Fast.	" 25	Dec. 23	Feast of Dedication.
			Tebet...	" 23, 29	

SOVEREIGNS OF EUROPE, &c.

		Born.	Accession.
Austria.....	Francis Joseph, Emperor.....	18 Aug. 1830	2 Dec. 1848
Baden.....	Frederick W. L. Grand Duke.....	9 Sept. 1826	6 Sept. 1854
Bavaria.....	Louis II., King.....	25 Aug. 1845	10 Dec. 1865
Belgium.....	Leopold II., King.....	9 April 1835	7 April 1831
Brazil (South America).....	Pedro II., Emperor of.....	2 Dec. 1825	15 Nov. 1833
Denmark.....	Christian IX., King.....	8 April 1818	4 June 1837
England.....	Victoria Queen.....	24 May 1819	24 May 1837
France.....	Marshal MacMahon, President.....	13 July 1808	26 June 1865
Greece.....	George I., King of the Greeks.....	24 Dec. 1845	16 June 1848
Hesse Darmstadt.....	Louis III., Grand Duke.....	9 June 1806	17 Mar. 1849
Holland.....	William III., King.....	19 Feb. 1817	23 Mar. 1849
Italy.....	Victor Emmanuel II., King.....	14 Mar. 1820	7 Mar. 1842
Mecklenburg Schwerin.....	Frederick Francis, Grand Duke.....	28 Feb. 1823	6 Sept. 1860
Mecklenburg Strelitz.....	Fred. Wm. Charles, Grand Duke.....	17 Oct. 1819	27 Feb. 1853
Oldenburg.....	Nicolas, Grand Duke.....	8 July 1827	11 Nov. 1861
Portugal.....	Dom Louis I., King.....	31 Oct. 1818	2 Jan. 1861
Prussia.....	William I., Emperor of Germany.....	22 Mar. 1797	16 June 1816
Roman Church.....	Pius IX., Pope.....	13 May 1792	2 Mar. 1855
Russia.....	Alexander II., Emperor.....	20 April 1818	29 Jan. 1844
Saxe Coburg and Gotha.....	Ernest II., Augustus Charles, Duke.....	21 June 1818	20 Sept. 1866
Saxe Meiningen.....	George, Duke.....	22 April 1826	July 1853
Saxe Weimar.....	Charles Alexander, Grand Duke.....	24 June 1818	9 Aug. 1854
Saxony.....	John I., King.....	13 Dec. 1801	Feb. 1873
Spain.....	Marshal Serrano, President.....		
Sweden and Norway.....	Oscar II., King.....	21 Jan. 1829	18 Sept. 1872
Turkey.....	Abdul Aziz Khan, Sultan.....	9 Feb. 1830	25 June 1861
United States (America).....	Ulysses S. Grant, President.....	27 April 1822	4 Mar. 1869
Wurtemberg.....	Chs. Frederick Alexander, King.....	6 Mar. 1833	25 June 1861