

## THE MOON.

The times at which the moon rises and sets, are both given for every day in the year. They are computed for the moon's centre, and those on pp. 6, 7, 8, for a station in Lat. 5°, and Long. 46h. 34m. W. The corrections for latitude to be applied to the times of setting given in pp. 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 numbers of degrees by which the Latitude exceeds 5°. 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  $\frac{4}{2}$  and  $\frac{5}{2}$ .

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 pp. 6, 7, 8, shows the time to which a watch should be set when the sun is due south, or when the shadow falls on the moon mark of a sun dial.

The times of the rising and setting of the sun and moon on pp. 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 pp. 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.

## JEWISH CALENDAR FOR 1876.

5636	1876.	5636.	1876.
Sebat.....	Jan. 27	Ab.....	July 22
Adar.....	Feb. 25, 24	".....	" 20
" 15,	" 9	Elul.....	Aug. 20, 21
" 14, 15	" 10, 11		
Nissan.....	March 26	5637.	
" 15, 16	April 9, 10	Thiri.....	Sept. 19, 20
" 21, 22	" 1, 16	" 3	" 21
Iyar.....	May 24, 25	" 10	" 26
" 18	May 12	" 15, 16	Oct. 3, 4
Sivan.....	" 24	" 21	" 9
" 6, 7	" 29, 30	" 22	" 10
Tamuz.....	June 24, 23	" 23	" 11
" 17	July 9	Hevvan.....	" 18, 19
		Kislev.....	Nov. 17
		" 25	Dec. 11
		Tebet.....	" 16, 17

## SOVEREIGNS OF EUROPE., &amp;c.

		Born.	Accession.
Austria.....	Francis Joseph, Emperor.....	18 Aug. 1830	2 Dec. 1848
Baden.....	Fredrick W. L., Grand Duke.....	9 Sep. 1826	5 Sept. 1848
Bavaria.....	Lotus 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	16 Nov. 1848
Denmark.....	Christian IX., King.....	8 April 1848	10 June 1848
England.....	Victoria, Queen.....	24 May 1819	24 May 1837
France.....	Marsbal MacMahon, President.....	13 July 1802	26 June 1868
Greece.....	George I., King of the Greeks.....	24 Dec. 1845	18 June 1848
Hesse Darmstadt.....	Louis III., Grand Duke.....	9 June 1810	17 Mar. 1849
Holland.....	William III., King.....	19 Feb. 1817	25 Mar. 1849
Italy.....	Victor Emmanuel II., King.....	14 Mar. 1820	7 Mar. 1842
Mecklenburg Schwerin.....	Fredrick Francis, Grand Duke.....	28 Feb. 1823	6 Sept. 186
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. 1858	2 Jan. 1861
Prussia.....	William I., Emperor of Germany.....	22 Mar. 1797	18 June 1844
Roman Church.....	Pius IX., Pope.....	18 May 1792	2 Mar. 1855
Russia.....	Alexander II., Emperor.....	9 April 1818	29 Jan. 1855
Saxe Coburg and Gotha.....	Ernest II., Augustus Charles, Duke.....	21 June 1818	30 Sept. 1866
Saxe Meiningen.....	George, Duke.....	22 April 1826	3 July 1856
Saxe Weimar.....	Charles Alexander, Grand Duke.....	12 June 1818	9 Aug. 1854
Saxony.....	John, King.....	2 Dec. 1801	Feb. 1878
Spain.....	Alphonso I., King.....		1874
Sweden and Norway.....	Oscar II., King.....	21 Jan. 1829	18 Sept. 1872
Turkey.....	Abdul Aziz Khab, Sultan.....	9 Feb. 1830	5 June 1851
United States (America).....	Ulysses S. Grant, President.....	27 April 1822	4 Mar. 1869
Wurtemberg.....	Chs. Fredrick Alexander, King.....	6 Mar. 1842	25 June 1861