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1889.

Dominical Letter.....F.	Solar Cycle.....22
Epact.....28	Roman Indiction.....2
Lunar Cycle, or Golden Number.....9	Julian Period.....6602
The Year 5650 of the Jewish Era commences at sunset on Sept. 26.	
The Year 1307 of the Mohammedan Era, or the Era of the Hegira begins on the 23th day of Aug., 1889.	
The 53rd year of Queen Victoria's reign begins June 20, 1889.	
The 114th year of the Independence of the United States begins July 4, 1889.	
The first day of January, 1889, is the 2,411,004th day since the commencement of the Julian Period.	

ECLIPSES.

In the Year 1889 there will be three eclipses of the Sun and two of the Moon.
I. A total eclipse of the Sun, January 1, 1889, visible as a total eclipse just before sunset in Manitoba, and as a partial eclipse in some other parts of the Dominion. At Toronto eclipse begins at 4h. 26.4 standard time, at sunset 0.29 of the Sun's diameter will be eclipsed.
II. A partial eclipse of the Moon, January 16, 1889, visible in North America. Standard time 75th meridian.

	D. H. M.		D. H. M.
First contact with Penumbra, Jan. 16, 9.40 p.m.		Last contact with Shadow, Jan. 17, 2.01 a.m.	
First contact with Shadow " 16, 10.59 "		Last contact with Penumbra " 17, 3.20 a.m.	
Middle of eclipse " 17, 0.30 a.m.			

Magnitude of the eclipse=0.636, (Moon's diameter=1).

III. An annular eclipse of the Sun, June 27, 1889, invisible in Canada.

IV. A partial eclipse of the Moon, July 1, 1889, invisible in Canada.

V. A total eclipse of the Sun, December 21, 22, the termination of which is partially visible on the Atlantic coast at sunrise.

Venus will be an evening star till April 30, afterwards a morning star.

Jupiter will be a morning star till June 24, then an evening star.

Saturn will be a morning star till February 5, an evening star till August 16, then morning star.

THE SEASONS.

Sun enters Aries—Spring begins.....	March 20,	5 a.m.—Standard time.
Sun enters Cancer—Summer begins.....	June 21,	1 a.m.
Sun enters Libra—Autumn begins.....	Sept. 22,	4 p.m.
Sun enters Capricornus—Winter begins Dec.	21,	10 a.m.

Head and face, ♈ ARIES, the Ram.

Arm.
♊ GEMINI,
The Twins.

Heart.
♌ LEO,
The Lion.

Reins.
♎ LIBRA
The Balance.

Thighs.
♐ SAGITTARIUS,
The Bowman.

Legs.
♑ AQUARIUS,
The Waterman.



Neck.
♉ TAURUS,
The Bull.

Breast.
♋ CANCER,
The Crab.

Bowels.
♍ VIRGO,
The Virgin.

Secrets.
♏ SCORPIO,
The Scorpion.

Knees.
♑ CAPRICORN,
The Goat.

Feet. ♋ PISCES, the Fishes

CHARACTERS—☉ The Sun; ☿ Mercury; ♀ Venus; ⊕ the Earth; ☾ the Moon; ♂ Mars; ♃ Jupiter; ♄ Saturn; ♅ Uranus; ♆ Neptune; ☊ Conjunction; ☌ Quadrature, 90° from ☉; ☍ Opposition, 180° from ☉, Apogee, far from the ☉; ☎ Perigee, near the ☉; ☏ Ascending Node, ☐ Descending Node.