

the fifth;
orn in it.

IE.

Slight showers.
Dry days.

MOON'S PHASES.	D. Toronto.		Quebec.		Twilight or Daylight begins and ends at—											
					Toronto.		Halifax.		Montreal.		Fredricton.		Quebec.			
	h m		h m		Day.		Beg. End		Beg. End		Beg. End		Beg. End		Beg. End	
☉ Last Quar.	6	8 11 mo	8	43 mo			A. M. P. M.	A. M. P. M.	A. M. P. M.	A. M. P. M.	A. M. P. M.	A. M. P. M.	A. M. P. M.	A. M. P. M.	A. M. P. M.	A. M. P. M.
☾ New Moon.	13	7 44 ev	8	16 ev	h	m	h	m	h	m	h	m	h	m	h	m
☽ First Quar.	22	2 34 mo	3	6 mo	12	10	6 1	50	10 17	1 39	10 26	1 32	10 35	1 26	10 47	
☾ Full Moon.	29	1 5 mo	1	37 mo	10	2 14	9 56	2 2	10 8	1 52	10 18	1 46	10 24	1 36	10 34	
☽ Apogee ...	17	2 50 mo	3	22 mo	20	2 28	9 44	2 20	9 54	2 12	10 12	6 10	6 1	58	10 14	
☽ Perigee ...	29	7 44 ev	8	16 ev	30	2 46	9 26	2 41	9 31	2 33	9 39	2 28	9 44	2 22	9 50	

Ephemeris of the Planets, &c.

Day Mo.	Venus South Even.	Mars South Morn.	Jupiter South Morn.	Saturn South Morn.	Sun's Longitude.	Sun's Right Ascen.	Venus Right Ascen.	Mars Right Ascen.	Jupiter Right Ascen.	Saturn Right Ascen.	Venus Decl. North.	Mars Decl. North.	Jupiter Decl. South.	Saturn Decl. North.
	h m	h m	h m	h m	° /	h m	h m	h m	h m	h m	° /	° /	° /	° /
1 ...	3 8	10 37	3 44	10 49	99 14	6 40	9 46	5 14	22 19	5 26	15 7	23 23	11 35	22 1
7 ...	3 8	10 31	3 19	10 29	104 57	7 5	10 10	5 31	22 18	5 29	12 37	23 43	11 42	22 4
13 ...	3 8	10 27	2 55	10 8	110 41	7 29	10 33	5 49	22 17	5 32	9 59	23 55	11 51	22 6
19 ...	3 6	10 14	2 29	9 48	116 24	7 54	10 54	6 7	22 15	5 35	7 15	23 59	12 2	22 9
25 ...	3 3	10 11	2 4	9 27	122 8	8 18	11 15	6 25	22 13	5 38	4 30	23 57	12 15	22 10
31 ...	2 58	10 7	1 38	9 6	127 52	8 41	11 34	6 42	22 11	5 41	1 44	23 47	12 30	22 12

Day of Month.	Day of Week.	Calendar for Upper Canada and Nova Scotia.			Calendar for Lower Canada and New Brunswick.			DEPARTMENT FOR ALL OF UPPER AND LOWER CANADA.									
		Sun Rises.	Sun Sets.	Moon Rises.	Sun Rises.	Sun Sets.	Moon Rises.	Pole Star in Meridian Morning.	Shadow at Noon Mark. Evening.	Mic's Age Noon.	Moon South. Morn.	Moon's Place. 7 P. M.	Sun's Declination North.				
		h m	h m	h m	h m	h m	h m	h m	s	h m	s	days	h m	° /	° /	° /	° /
1	Sund.	182	4 19	7 48	9 50	1 19	7 47	9 58	6 30	20 12	3 26	17.1	1 25	♊	8 23	8 15	
2	Mon.	183	4 20	7 48	10 24	1 20	7 47	10 31	6 26	25 12	3 37	18.1	2 27	♋	23 23	4 5	
3	Tuesd.	184	4 20	7 47	10 53	1 21	7 47	10 57	6 22	30 12	3 48	19.1	3 25	♌	7 22	59 30	
4	Wed.	185	4 21	7 47	11 15	1 21	7 47	11 17	6 18	35 12	3 59	20.1	4 18	♍	22 22	54 32	
5	Thur.	186	4 22	7 47	11 37	1 22	7 46	11 37	6 14	40 12	4 10	21.1	5 7	♎	6 22	49 9	
6	Friday	187	4 22	7 46	11 59	1 23	7 46	11 57	6 10	45 12	4 20	22.1	6 54	♏	20 22	43 23	
7	Satur.	188	4 23	7 46	Morn	1 24	7 46	Morn	6 6	50 12	4 30	23.1	8 41	♐	3 22	37 13	
8	Sund.	189	4 24	7 46	21	1 25	7 46	17	6 2	55 12	4 40	24.1	7 28	♑	16 22	30 40	
9	Mon.	190	4 25	7 45	46	1 25	7 45	39	5 59	0 12	4 49	25.1	8 16	♒	20 22	23 43	
10	Tuesd.	191	4 25	7 45	1 18	1 25	7 45	1 9	5 55	5 12	4 58	26.1	9 7	♓	12 22	16 23	
11	Wed.	192	4 26	7 44	1 53	1 26	7 44	1 43	5 51	10 12	5 7	27.1	9 59	♊	25 22	8 39	
12	Thur.	193	4 27	7 44	2 40	1 26	7 44	2 29	5 47	15 12	5 15	28.1	10 52	♋	7 22	0 33	
13	Friday	194	4 28	7 43	Sets	1 27	7 43	Sets	5 43	20 12	5 22	29.1	11 45	♌	19 21	52 4	
14	Satur.	195	4 29	7 42	8 34	1 28	7 42	8 44	5 39	25 12	5 29	30.1	12 37	♍	1 21	43 13	
15	Sund.	196	4 30	7 41	9 7	1 29	7 42	9 15	5 35	30 12	5 36	1.5	1 25	♎	13 21	33 59	
16	Mon.	197	4 30	7 41	9 32	1 30	7 42	9 38	5 31	34 12	5 42	2.5	2 11	♏	25 21	24 23	
17	Tuesd.	198	4 31	7 40	9 55	1 31	7 41	9 59	5 27	39 12	5 48	3.5	2 54	♐	7 21	14 26	
18	Wed.	199	4 32	7 39	10 13	1 32	7 40	10 15	5 23	44 12	5 53	4.5	3 34	♑	19 21	4 6	
19	Thur.	200	4 33	7 39	10 31	1 33	7 39	10 32	5 19	49 12	5 57	5.5	4 14	♒	1 20	53 25	
20	Friday	201	4 34	7 38	10 50	1 34	7 38	10 48	5 15	54 12	6 1	6.5	4 54	♓	13 20	42 24	
21	Satur.	202	4 35	7 37	11 8	1 35	7 37	11 5	5 11	59 12	6 5	7.5	5 35	♊	25 20	31 1	
22	Sund.	203	4 36	7 36	11 29	1 36	7 36	11 24	5 8	4 12	6 8	8.5	6 18	♋	7 20	19 13	
23	Mon.	204	4 37	7 35	11 55	1 37	7 35	11 48	5 4	9 12	6 10	9.5	7 6	♌	20 20	7 14	
24	Tuesd.	205	4 38	7 34	Morn	1 38	7 32	Morn	5 0	14 12	6 11	10.5	7 58	♍	4 19	54 50	
25	Wed.	206	4 39	7 33	29	1 39	7 32	20	4 56	19 12	6 12	11.5	8 56	♎	17 19	42 6	
26	Thur.	207	4 40	7 32	1 14	1 40	7 32	1 4	4 52	23 12	6 13	12.5	9 59	♏	2 19	29 3	
27	Friday	208	4 41	7 31	2 13	1 41	7 31	2 2	4 48	28 12	6 13	13.5	11 4	♐	16 19	15 41	
28	Satur.	209	4 43	7 30	Rises	1 42	7 30	Rises	4 44	33 12	6 12	14.5	Morn	♑	2 19	1 59	
29	Sund.	210	4 44	7 28	8 20	1 43	7 29	8 28	4 40	38 12	6 10	15.5	0 9	♒	17 18	47 58	
30	Mon.	211	4 45	7 27	8 51	1 44	7 28	8 58	4 36	43 12	6 8	16.5	1 10	♓	2 18	33 39	
31	Tuesd.	212	4 46	7 26	9 18	1 46	7 26	9 20	4 32	48 12	6 6	17.5	2 7	♊	17 18	19 2	

PROB. 19.—The weight of a door 4 feet wide is 30 lbs. Required the pressure on its hinges, which are 6 feet apart.

PROB. 20.—Required two different isosceles triangles, whose areas and perimeters are equal.

PROB. 21.—Required to find three numbers the sum of whose 4th powers is a square.

PROB. 22.—A cannon ball weighs 6 lbs, in one scale of a false balance, and in the other 24 lbs. Required its true weight.

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