

name is said
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AGIE.

Rainy days.	Slight Showers.	Dry Days.
4	7	20
1	5	23
4	6	21
2	5	23
3	7	21
1	7	22
1	9	21
2	5	24
4	8	18
3	6	22
5	6	19
5	9	17
35	80	251

Jupiter's Satellites

D. H. M.
20 4 46. Mo.

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MOON'S PHASES.	D.	Toronto		Quebec.		Twilight or Daylight begins and ends at—											
						Toronto.		Halifax.		Montreal.		Fredrien.		Quebec.			
		h	m	h	m	Beg.	End	Beg.	End	Beg.	End	Beg.	End	Beg.	End	Beg.	End
Full Moon . . .	3	4	51	ev	5	23	ov										
Last Quarter . .	10	10	43	ev	11	15	ev										
New Moon . . .	17	11	28	ev	12	0	ev	15	97	17	5	7	25	4	59	7	26
First Quarter . .	25	6	9	mo	6	41	mo	10	4	77	36	4	7	37	4	42	7
Perigee	16	6	20	mo	6	52	mo	20	4	26	7	4	22	7	53	4	21
Apogee	28	6	14	mo	6	46	mo	30	4	78	2	4	3	54	1	8	74

Ephemeris of the Planets, &c.

Day Mo.	Venus South Even.	Mars South Even.	Jupiter South Morn.	Saturn South Even.	Sun's Long. Tube.	Sun's Right Asc.	Venus Light Asc.	Mars Light Asc.	Jupiter Light Asc.	Saturn Light Asc.	Venus South Decl.	Mars South Decl.	Jupiter South Decl.	Saturn South Decl.
1 ...	1 23	0 46	10 43	5 55	240 36	22 48	23 59	23 22	21 18	4 31	1 21	5 1	16 2	20 23
7 ...	1 27	0 40	10 24	5 32	346 36	23 11	0 26	23 33	21 20	4 33	1 46	3 15	5 20	20 27
13 ...	1 30	0 33	10 6	5 10	452 35	23 23	0 54	23 50	21 29	4 34	4 51	1 17	15 35	20 31
19 ...	1 33	0 26	9 47	4 48	358 34	23 57	1 21	0 1	21 35	4 35	7 53	n 3	15 11	20 36
25 ...	1 37	0 20	9 29	4 26	4 26	0 15	1 48	0 30	21 39	4 37	10 49	2 32	14 47	20 41
31 ...	1 41	0 13	9 10	4 5	10 26	0 38	2 16	0 47	21 43	4 39	13 35	4 2	14 25	20 46

Day of Month.	Day of Week.	Day of Year.	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 Sets.		Sun Rises.		Sun Sets.		Moon Sets.		Pole Star in Meridian Evening.		Shadow at Noon Mark Evening.		Mr's. Age Noon.		Moon South Even.		Moon's Place at 7 P. M.		Sun's Declination South.						
			h	m	h	m	h	m	h	m	h	m	h	m	h	m	s	h	m	s	days	h	m	s	°	'	°	'	°	'	°
1	Thur.	606	37	5	48	6	5	6	43	5	47	6	13	2	29	23	12	12	37	12	9	11	6	♄	20	7	35	54			
2	Friday	616	35	5	49	6	30	6	41	5	44	6	36	2	25	26	12	12	24	13	9	11	56	♅	14	7	13	4			
3	Satur.	626	33	5	51	Rises	6	39	5	47	Rises	6	41	2	21	30	12	12	12	14	9	Morn	do.	14	6	50	8				
4	Sund.	636	32	5	52	6	42	6	38	5	46	6	41	2	17	33	12	11	59	15	9	32	do.	26	6	27	7				
5	Mond.	646	30	5	53	7	46	6	37	5	47	7	46	2	13	37	12	11	45	16	9	1	13	♄	8	6	4	0			
6	Tues.	656	28	5	55	8	51	6	36	5	48	8	53	2	9	41	12	11	31	17	9	1	54	do.	21	5	40	48			
7	Wed.	666	26	5	56	9	59	6	35	5	49	10	3	2	5	44	12	11	16	18	9	2	36	♄	3	5	17	31			
8	Thur.	676	25	5	57	11	8	6	32	5	50	11	15	2	1	48	12	11	1	19	9	3	26	do.	16	4	54	10			
9	Friday	686	23	5	59	Morn	6	30	5	52	Morn	1	57	52	12	10	46	20	9	4	8	do.	29	4	30	46					
10	Satur.	696	21	6	6		19	6	27	5	53	27	1	53	56	12	10	31	21	9	5	0	♄	13	4	7	18				
11	Sund.	706	19	6	1	1	32	6	26	5	54	1	42	1	49	59	12	10	15	22	9	5	56	do.	26	3	43	46			
12	Mond.	716	17	6	2	2	40	6	24	5	56	2	52	1	46	3	12	9	59	23	9	6	56	♄	10	3	20	12			
13	Tues.	726	16	6	3	3	42	6	22	5	58	3	54	1	42	7	12	9	42	24	9	7	59	do.	25	2	56	35			
14	Wed.	736	14	6	4	4	34	6	19	5	59	4	43	1	38	11	12	9	26	25	9	9	1	♄	9	2	32	57			
15	Thur.	746	12	6	5	5	15	6	17	6	1	5	23	1	34	14	12	9	9	26	9	10	1	do.	24	2	9	16			
16	Friday	756	10	6	7	5	47	6	15	6	3	5	52	1	30	18	12	8	51	27	9	10	57	♄	9	1	45	35			
17	Satur.	766	8	6	8	Sets	6	13	5	4	Sets	1	26	22	12	8	34	28	9	11	50	do.	24	1	21	53					
18	Sund.	776	6	6	9	6	57	6	12	6	5	6	57	1	22	25	12	8	16		5 ev.	40	♄	9	0	58	10				
19	Mond.	786	5	6	10	8	12	6	10	6	8	8	14	1	18	29	12	7	59	1	5	1	30	do.	23	0	34	26			
20	Tues.	796	3	6	11	9	27	6	8	6	9	9	32	1	14	33	12	7	41	2	5	2	19	♄	7	8	10	44			
21	Wed.	806	1	6	12	10	39	6	6	6	9	10	46	1	10	37	12	7	23	3	5	3	8	do.	20	N.	12	58			
22	Thur.	815	59	6	14	11	49	6	4	6	10	11	58	1	6	41	12	7	4	4	5	3	59	♄	4	0	36	39			
23	Friday	825	57	6	15	Morn	6	36	6	3	11	Morn	1	2	45	12	6	46	5	5	5	43	do.	16	1	0	19				
24	Satur.	835	55	6	16		57	6	6	6	12	1	7	0	58	49	12	6	28	6	5	5	41	do.	28	1	23	56			
25	Sund.	845	54	6	17	1	56	5	58	6	14	2	7	0	54	53	12	6	9	7	5	6	36	♄	11	1	47	32			
26	Mond.	855	52	6	19	2	48	5	57	6	15	3	0	0	50	57	12	5	51	8	5	7	26	do.	23	2	11	5			
27	Tues.	865	50	6	21	3	30	5	55	6	15	3	40	0	47	1	12	5	32	9	5	8	15	♄	4	2	34	35			
28	Wed.	875	48	6	24	4	5	5	53	6	17	4	13	0	43	5	12	5	14	10	5	9	2	do.	16	2	58	1			
29	Thur.	885	46	6	22	4	34	5	50	6	20	4	41	0	39	8	12	4	55	11	5	9	47	do.	28	3	21	24			
30	Friday	895	45	6	23	4	58	5	48	6	22	5	3	0	35	12	12	4	37	12	5	10	29	do.	10	3	44	44			
31	Satur.	905	43	6	25	5	18	5	46	6	23	5	22	0	31	16	12	4	18	13	5	11	11	do.	22	4	7	59			

PROB. 10.—A purchase of \$15,000 worth of goods, is to be paid for in three equal payments, without interest; the first in 4 months, the second in six months, and the last in nine months. Money being worth 7 per cent., how much ready money ought to pay the debt?

PROB. 11.—If the diameter of the earth be 8,000 miles, and a hole be perforated through it centrally, how long would a ball be in reaching the centre, if it be placed within said hole, which is supposed to be a vacuum, and what velocity will it acquire at that point?