

r Augustus.

IGIE.

Slight Showers.	Days.
5	52
5	18
7	20
5	21
10	17
5	23
4	26
6	23
5	22
6	25
4	22
8	19

MOON'S PHASES.	D.	Toronto.	Quebec.	Twilight or Daylight begins and ends at—															
				Days.	Toronto.		Halifax.		Montreal.		Fredricka		Quebec.						
					Beg.	End	Beg.	End	Beg.	End	Beg.	End	Beg.	End					
															A. M.	P. M.	A. M.	P. M.	A. M.
		<i>h m</i>	<i>h m</i>																
☾ Last Quarter ...	4	4 5 ev	4 37 ev																
☾ New Moon	12	1 37 ev	2 9 ev		<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	<i>h m</i>	
☾ First Quarter ...	20	3 18 ev	3 50 ev	12	49 23	2 43 9	29	2 36 9	36	2 32 9	39	2 29 9	43						
☾ Full Moon	27	7 53 mo	8 25 mo	10	3 6 9	4 3 0	9	10	2 55 9	15	2 51 9	18	2 47 9	23					
☾ Apogee	13	11 50 mo	0 22 ev	20	3 22 8	43 3	18	8 48 3	14 8	52 3	11 8	55 3	7 8	59					
☾ Perigee	27	5 2 mo	5 34 mo	30	3 42 8	19 3	38	8 23 3	3 32 8	29 3	3 30 8	31 3	26 8	34					

Ephemeris of the Planets, &c.

Day Mo.	Venus South Even.	Mars South Morn.	Jupit'r South Morn.	Saturn South Morn.	Sun's Longi-tude.	Sun's Right Ascen.	Venus Right Ascen.	Mars Right Ascen.	Jupit'r Right Ascen.	Saturn Right Ascen.	Venus Decl. North.	Mars Decl. North.	Jupit'r Decl. South.	Saturn Decl. North.
	h m	h m	h m	h m	° ' "	h m	h m	h m	h m	h m	° ' "	° ' "	° ' "	° ' "
1 ...	2 57	10 6	1 33	9 3	128 49	8 45	11 37	6 45	22 11	5 42	1 16	23 44	12 32	22 12
7 ...	2 51	10 0	1 7	8 42	134 34	9 8	11 54	7 22	8 5 44	5 44	1 26	23 26	12 48	22 13
13 ...	2 43	9 53	0 41	8 21	140 20	9 31	12 10	7 19	22 5	5 47	4 23	1 13	5 22	14
19 ...	2 33	9 46	0 14	8 0	146 6	9 53	12 23	7 36	22 2	5 49	6 29	22 30	13 22	22 14
25 ...	2 20	9 39	Even.	7 38	151 53	10 16	12 34	7 52	21 59	5 51	8 42	21 53	13 41	22 15
31 ...	2 4	9 31	11 16	7 17	157 41	10 37	12 42	8 8	21 56	5 53	10 35	21 11	13 57	22 15

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 Rises.	Sun Rises.		Sun Sets.		Moon Rises.	Pole Star in Meridian Morning.		Shadow at Noon Mark. Evening.		Mn'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	°	'	''						
1	Wed.	213	4	47	7	25	9	41	4	47	7	25	9	41	4	28	52	12	6	3	18.5	2	59	X	218	4	7	
2	Thur.	214	4	48	7	24	10	3	4	48	7	24	10	1	4	24	57	12	5	59	19.5	3	49	do.	16	17	48	54
3	Friday	215	4	49	7	22	10	25	4	50	7	22	10	20	4	21	2	12	5	55	20.5	4	37	do.	30	17	33	23
4	Satur.	216	4	50	7	21	10	50	4	51	7	21	10	43	4	17	7	12	5	50	21.5	5	24	☾	13	17	17	36
5	Sund.	217	4	51	7	20	11	19	4	52	7	20	11	11	4	13	12	12	5	44	22.5	6	13	do.	26	17	1	31
6	Mond.	218	4	53	7	19	11	54	4	54	7	18	11	45	4	9	17	12	5	38	23.5	7	4	☾	9	16	45	10
7	Tuesd.	219	4	54	7	17	Morn	4	54	7	16	Morn	4	5	4	5	22	12	5	32	24.5	7	56	do.	22	16	28	32
8	Wed.	220	4	55	7	16	36	4	56	7	14	25	4	1	4	1	27	12	5	25	25.5	8	48	☾	6	16	11	39
9	Thur.	221	4	56	7	14	1	27	4	57	7	13	1	16	3	57	32	12	5	17	26.5	9	41	do.	16	15	54	30
10	Friday	222	4	57	7	13	2	25	4	57	7	11	2	14	3	53	36	12	5	8	27.5	10	33	do.	28	15	37	5
11	Satur.	223	4	58	7	12	3	27	5	0	7	10	3	17	3	49	41	12	5	0	28.5	11	22	☾	10	15	19	25
12	Sund.	224	4	59	7	10	Sets.	5	1	7	9	Sets.	3	45	4	46	12	4	50	29.5	Ev.	8	do.	22	15	1	30	
13	Mond.	225	5	17	9	8	0	5	2	7	8	8	5	3	41	50	12	4	40	1	9	52	☾	4	14	43	21	
14	Tuesd.	226	5	27	7	8	20	5	3	7	5	8	23	3	37	55	12	4	30	1	9	1	33	do.	16	14	24	57
15	Wed.	227	5	37	5	8	37	5	4	7	4	8	38	3	34	0	12	4	18	2	9	2	13	do.	28	14	6	20
16	Thur.	228	5	47	4	8	55	5	6	2	8	54	3	30	5	12	4	7	3	9	2	53	☾	9	13	47	30	
17	Friday	229	5	57	2	9	13	5	8	7	0	9	11	3	26	9	12	3	54	4	9	3	33	do.	22	13	28	26
18	Satur.	230	5	66	1	9	32	5	9	6	59	9	28	3	22	14	12	3	42	5	9	4	15	☾	4	13	9	10
19	Sund.	231	5	86	59	9	55	5	9	6	57	9	48	3	18	19	12	3	28	6	9	4	59	do.	16	12	49	41
20	Mond.	232	5	96	57	10	24	5	10	6	56	10	15	5	14	24	12	3	14	7	9	5	48	do.	29	12	30	0
21	Tuesd.	233	5	106	56	11	35	5	12	6	54	10	53	3	10	29	12	3	0	8	8	6	42	☾	12	12	10	7
22	Wed.	234	5	116	54	11	54	5	13	6	53	11	43	3	6	33	12	2	45	9	9	7	41	do.	26	11	50	3
23	Thur.	235	5	126	53	Morn	5	14	6	50	Morn	3	2	3	2	38	12	2	30	10	9	8	44	☾	10	11	29	47
24	Friday	236	5	136	51	59	5	16	6	48	48	2	58	43	12	2	14	11	9	9	9	48	do.	25	11	9	2	
25	Satur.	237	5	146	49	2	15	5	17	6	47	2	6	2	54	47	12	1	58	12	9	10	51	☾	10	10	48	44
26	Sund.	238	5	166	48	Rises	5	18	6	46	Rises	2	50	52	12	1	42	13	9	11	49	do.	25	10	27	57		
27	Mond.	239	5	176	46	7	16	5	19	6	43	7	19	2	46	57	12	1	25	14	9	Morn	☾	10	10	7		
28	Tuesd.	240	5	186	44	7	41	5	20	6	42	7	42	2	43	1	12	1	7	15	9	44	do.	26	9	45	5	
29	Wed.	241	5	196	42	8	35	5	21	6	41	8	2	2	39	6	12	0	50	16	9	1	37	☾	11	9	24	38
30	Thur.	242	5	206	40	8	25	5	22	6	38	8	22	2	35	11	12	0	32	17	9	2	27	do.	25	9	3	13
31	Friday	243	5	216	39	8	51	5	23	6	37	8	45	2	31	15	12	0	14	18	9	3	16	do.	9	8	41	40

PROB. 23.—There is a certain field in the shape of an equilateral triangle, in which is a spring. The distances from the middle of each side of the field to the spring are 10, 20, and 30 rods. Required the sides and area of the field.

PROB. 24.—If a stone fall from a height of 300 feet, and two seconds afterwards another body is let fall from a height of 200 feet, in what time will the former overtake the latter?