Moon's Phases.	D.	Toronto.	Quebec.
		h *m*	*h* *m*
First Quarter ...	7	0 20 mo	0 53 mo
Full Moon	13	5 42 ev	6 14 ev
Last Quarter ...	20	0 49 ev	1 22 ev
New Moon	28	4 37 ev	5 10 ev
Perigee	13	1 15 ev	1 47 ev
Apogee	26	9 21 ev	9 53 ev

Twilight or Daylight begins and ends at—

Days.	Toronto. Beg. A. M.	Toronto. End P. M.	Halifax. Beg. A. M.	Halifax. End P. M.	Montreal. Beg. A. M.	Montreal. End P. M.	Fredricton. Beg. A. M.	Fredricton. End P. M.	Quebec. Beg. A. M.	Quebec. End P. M.
	h *m*	*h* *m*	*h* *m*	*h* *m*	*h* *m*	*h* *m*	*h* *m*	*h* *m*	*h* *m*	*h* *m*
1	4 22	7 16	4 21	7 18	4 21	7 18	4 19	7 20	4 18	7 21
10	4 34	7 0	4 33	7 1	4 32	7 2	4 31	7 3	4 31	7 3
20	4 45	6 44	4 45	6 40	4 45	6 45	4 46	6 43	4 44	6 45
30	4 56	6 27	4 56	6 27	5 9	6 23	5 5	6 21	4 57	6 29

Ephemeris of the Planets, &c.

Day Mo.	Venus South. Even.	Mars South. Even.	Jupit'r South. Even.	Saturn South Morn.	Sun's Longitude.	Sun's Right Ascen.	Venus Right Ascen.	Mars Right Ascen.	Jupit'r Right Ascen.	Saturn Right Ascen.	Venus Decl. South.	Mars Decl. South.	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 ...	1 4	3 50	11 31	6 18	188 42	12 32	13 46	16 33	0 15	6 59	10 26	23 25	0 7	22 7
7 ...	1 8	3 45	11 5	5 55	194 37	12 54	14 14	16 52	0 12	7 0	13 13	24 0	0 25	22 5
13 ...	1 13	3 40	10 38	5 32	200 33	13 16	14 43	17 11	0 9	7 1	15 49	24 26	0 42	22 4
19 ...	1 19	3 36	10 12	5 9	206 31	13 38	15 13	17 30	0 7	7 1	18 12	24 45	0 58	22 4
25 ...	1 26	3 32	9 46	4 46	212 36	14 1	15 43	17 49	0 5	7 2	20 17	24 54	1 11	22 4
31 ...	1 33	3 28	9 21	4 22	218 30	14 24	16 14	18 9	0 3	7 1	22 2	24 51	1 22	22 4

Day of Month.	Day of Week.	Day of Year.	Calendar for Upper Canada and Nova Scotia. Sun Rises	Sun Sets.	Moon Sets.	Calendar for Lower Canada and New Brunswick. Sun Rises	Sun Sets.	Moon Sets.	Department for all of Upper and Lower Canada. Pole Star in Meridian Morning.	Shadow at Noon Mark. Morning.	Moon'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	Wed.	275	5 58	5 41	6 40	6	5 36	6 34	0 26 52	11 49 29	2. 5	1 34	♎ 10	3 26 46
2	Thur.	276	5 59	5 40	7 3	6	5 33	6 55	0 22 57	11 49 10	3. 5	2 17	do. 22	3 50 4
3	Friday	277	6 0	5 38	7 32	6	5 32	7 22	0 19 1	11 48 52	4. 5	3 4	♏ 4	4 13 18
4	Satur.	278	6 1	5 36	8 9	7	5 31	7 58	0 15 5	11 48 34	5. 5	3 55	do. 16	4 36 29
5	SUND	279	6 3	5 34	8 57	8	5 28	8 45	0 11 10	11 48 16	6. 5	4 48	do. 28	4 59 37
6	Mond.	280	6 4	5 32	9 55	9	5 27	9 43	0 7 14	11 47 59	7. 5	5 44	♐ 11	5 22 41
7	Tuesd.	281	6 5	5 30	11 3	6	11 5 25	10 53	Evening	11 47 42	8. 5	6 41	do. 24	5 45 40
8	Wed.	282	6 6	5 29	Morn	6	13 5 27	Morn	11 55 26	11 47 25	9. 5	7 37	♑ 8	6 8 35
9	Thur.	283	6 7	5 27	20	6	14 5 29	11	11 51 31	11 47 9	10. 5	8 31	do. 22	6 31 26
10	Friday	284	6 9	5 25	1 37	6	15 5 19	1 31	11 47 35	11 46 53	11. 5	9 23	♒ 6	6 54 10
11	Satur.	285	6 10	5 23	2 58	6	16 5 18	2 55	11 43 39	11 46 38	12. 5	10 15	do. 21	7 16 50
12	SUND	286	6 11	5 22	4 16	6	18 5 16	4 16	11 39 45	11 46 24	13. 5	11 6	♓ 6	7 39 23
13	Mond.	287	6 12	5 20	Rises	6	19 5 15	Rises	11 35 37	11 46 9	14. 5	11 58	do. 21	8 1 50
14	Tuesd.	288	6 14	5 18	5 38	6	21 5 13	5 33	11 31 51	11 45 56	15. 5	Morn	♈ 7	8 24 9
15	Wed.	289	6 15	5 17	6 11	6	23 5 9	6 3	11 27 55	11 45 43	16. 5	0 53	do. 22	8 46 22
16	Thur.	290	6 16	5 15	6 49	6	24 5 8	6 40	11 24 0	11 45 30	17. 5	1 51	♉ 6	9 8 28
17	Friday	291	6 18	5 13	7 39	6	25 5 6	7 27	11 20 4	11 45 18	18. 5	2 51	do. 21	9 30 26
18	Satur.	292	6 19	5 12	8 36	6	26 5 4	8 24	11 16 8	11 45 7	19. 5	3 53	♊ 4	9 52 15
19	SUND	293	6 20	5 10	9 40	6	27 5 3	9 28	11 12 12	11 44 56	20. 5	4 53	do. 18	10 13 56
20	Mond.	294	6 21	5 8	10 48	6	28 5 2	10 38	11 8 15	11 44 46	21. 5	5 50	♋ 1	10 35 28
21	Tuesd.	295	6 23	5 7	11 55	6	30 5 0	11 48	11 4 20	11 44 37	22. 5	6 42	do. 13	10 57 51
22	Wed.	296	6 24	5 5	Morn	6	31 4 58	Morn	11 0 24	11 44 28	23. 5	7 30	do. 26	11 18 4
23	Thur.	297	6 25	5 3	59	6	32 4 56	54	10 56 28	11 44 20	24. 5	8 14	♌ 8	11 39 8
24	Friday	298	6 27	5 2	2	4	6 34	4 54	2 1	10 52 32	11 44 13	25. 5	8 55	do. 20	12 0 0
25	Satur.	299	6 28	5 0	3	5	6 35	4 53	3 3	10 48 36	11 44 7	26. 5	9 34	♍ 1	12 20 42
26	SUND	300	6 29	4 59	4	5	6 37	4 51	4 6	10 44 40	11 44 1	27. 5	10 13	do. 13	12 41 12
27	Mond.	301	6 31	4 57	5	6	6 39	4 49	5 8	10 40 44	11 43 56	28. 5	10 52	do. 25	13 1 13
28	Tuesd.	302	6 32	4 56	Sets.	6	41 4 47	Sets	10 36 48	11 43 52	29. 5	11 32	♎ 7	13 21 37
29	Wed.	303	6 33	4 54	5	7	6 43	4 45	5 0	10 32 52	11 43 48	0. 8	Ev. 15	do. 19	13 41 31
30	Thur.	304	6 35	4 53	5 34	6	44 4 44	3 25	16 28 56	11 43 55	1. 8	1 1	♏ 1	14 1 12
31	Friday	305	6 36	4 51	6 10	6	45 4 43	6 0	10 25 0	11 43 43	2. 8	1 51	do. 13	14 20 39

Prob. 74.—A triangular field, whose sides are 100, 120, and 160 rods, is required to be divided into 3 *equal* parts, by lines drawn from the corners, and meeting at a point within. Required the lengths of said lines.

Prob. 75.—A ship sails north 7 miles per hour, another sails east 10 miles per hour, for 5 hours; she then tacks to cut the other off, or to overtake her. How far must she sail to do it, and on what course?

Prob. 76.—Required all the integral values of x, and y, when $11x+5y=254$.