

12. DECEMBER. Begins on Monday, has 31 days. 1856.

Moon's Phases.

	D.	H.	M.	
First Quarter,	4	10	31	E.
Full Moon,	11	3	18	E.
Last Quarter,	19	1	48	M.
New Moon,	27	3	49	M.

each side of which is 6 inches. The sides of the rail lay in an angel of 45° to the horizon. Required, the edges of the hole, their included angle, and the solid contents of the hole.

PROB. 30.—The intensity of two brilliants A. and B. are as 5 to 3. the distance between them is 6 feet. Required a point that will receive twice as much light from A. as from B.

Day of Mon.	Day of Week.	Phenomena, Chronology, etc.	Sun rises. H. M.	Sun sets. H. M.	Sun's dec. S. °	Moon's place.	Moon sets. H. M.	Moon south. H. M.	High water. H. M.
1	Mon	Daybreak 5 27.	7 21	4 39	21 56	V3	8 6	3 25	11 19
2	Tue	4 so. 7 12. <i>High</i>	7 22	4 38	22 5	V3	9 17	4 18	12 0
3	Wed	Flit James II. 1688.	7 22	4 38	22 13	V3	10 29	5 9	morn.
4	Thu	4 so. 2 21. <i>winds.</i>	7 23	4 37	22 21	W	11 41	5 57	0 47
5	Fri	Van Buren b. 1782.	7 23	4 37	22 29	W	morn.	6 45	1 40
6	Sat	Daybreak 5 33.	7 24	4 36	22 36	X	0 52	7 33	2 41
7	E	2d Sun. in Advent.	7 24	4 36	22 42	X	2 4	8 22	3 53
8	Mon	4 in Aphe. <i>Squalls</i>	7 25	4 35	22 49	Y	3 18	9 15	5 2
9	Tue	4 so. 6 42. <i>of snow.</i>	7 25	4 35	22 54	Y	4 34	10 11	6 6
10	Wed	Sun 90° W. of Nep.	7 26	4 34	23 0	Y	5 52	11 12	7 3
11	Thu	Moon highest.	7 26	4 34	23 5	Y	rises.	morn.	7 56
12	Fri	Daybreak 5 37.	7 26	4 34	23 9	Y	5 16	0 16	8 47
13	Sat	<i>Cold and clear.</i>	7 27	4 33	23 13	Y	6 22	1 19	9 38
14	E	Washington d. 1799.	7 27	4 33	23 16	Y	7 31	2 18	10 26
15	Mon	4 so. 2 36. <i>Fair.</i>	7 27	4 33	23 19	Y	8 40	3 13	11 12
16	Tue	Moon near Regulus.	7 27	4 33	23 22	Y	9 45	4 21	11 55
17	Wed	Auro. Borealis dis. 1719.	7 27	4 32	23 24	Y	10 47	4 47	ev. 41
18	Thu	4 so. 6 12. <i>Cloudy.</i>	7 28	4 32	23 26	Y	11 46	5 29	1 26
19	Fri	Daybreak 5 41.	7 28	4 32	23 27	Y	morn.	6 8	2 11
20	Sat	4 so. 2 41. <i>and</i>	7 28	4 32	23 27	Y	0 45	6 47	3 3
21	E	Moon in apogee.	7 28	4 32	23 28	Y	1 45	7 27	4 7
22	Mon	Pilgrims land. 1620.	7 28	4 32	23 27	Y	2 46	8 8	5 6
23	Tue	4 so. 5 54. <i>stormy.</i>	7 28	4 32	23 27	Y	3 49	8 52	6 7
24	Wed	Treaty Ghent 1814.	7 28	4 32	23 25	Y	4 54	9 39	7 6
25	Thu	Christmas. <i>Snow</i>	7 28	4 32	23 24	Y	6 0	10 31	7 51
26	Fri	Daybreak 5 44.	7 27	4 33	23 21	Y	7 3	11 26	8 34
27	Sat	Moon near 4. <i>or</i>	7 27	4 33	23 19	Y	sets.	ev. 23	9 13
28	E	Sun. aft. Christmas.	7 27	4 33	23 16	Y	5 55	1 19	9 55
29	Mon	4 south 5 33. <i>rain.</i>	7 27	4 33	23 12	V3	7 8	2 14	10 35
30	Tue	4 near 4 and 3.	7 26	4 34	23 8	V3	8 20	3 6	11 15
31	Wed	Saturn brightest.	7 26	4 34	23 4	W	9 33	3 36	11 56

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