Moon's Phases.

D. H. M. New Moon, 5 0 57 M. First Quarter, 11 11 56 E. Full Moon, 20 4 18 M. Last Quarter, 27 6 31 E.

PROB. 7 .- The greatest diameter of an octagon is 18, required its inscribed square.

PROB. 8.—Required the largest 8-sided figure that can be inscribed in a square, whose side is 20 inches.

Prob. 9.—How many trees can be planted in a circular garden, 10 rods in diameter, they not being within 10 feet of each other, nor within 21 feet of the fence?

PROB. 10.—If the diameter of the earth be 8,000 miles, and a hole perforated through it

Day of Mon.	Day of Week.	Phenomena, Chronology, etc.	S		20 20	ets.	Su	n's		ris	oon, es. M.	sou	ith.	wa	
1	Tue	Daybreak 4 11.	5	43	6	17	4	49	V3	4	9	8	59	5	22
2	Wed	Jefferson bo. 1743.	5	42	6	18	5	12	AW	4	31	9	53	6	51
3	Thu	1 d 4 and Q. Fair	5	41	6	19	5	35	w	4	50	10	45	7	49
4	Fri	in perigee. and	5	40	6	20	5	58	36	se	ts.	11	37	8	36
5	Sat	Q so. 10 22. mild.	5	38	6	22	6	20	×	7	19	ev.	29	9	15
6	10	Q in Aph. Begins	5	37	6	23	6	43	90	8	36	1	22	0	57
7	Mon	Daybreak 3 59. to	5	36	6	24	7	6	90	9	53	2	17	10	39
8	Tue	look like Spring.	5	34	6	26	7	28	8	11	6	3	14	11	18
9	Wed	Peace with Eng. '84.	5	33	6	27	7	50	8	mo	rn.	4	13	11	58
10	Thu	nighest. Perhaps	5	32	6	28	8	12	П	0	30	5	11	me	rn.
11	Fri	2 so. 10 26. snow.	5	30	6	30	8	34	П	1	14	6	7	0	41
		H. Clay born 1777.		29	6	31					12				27
			5	28	6	32	9	18	00	2	40	7	47	2	27
14	Mon	near Regulus.	5	26	6	34	9	40	00	3	13	8	31	3	51
		2 so. 10 28. Rain,	5	25	6	35	10	1	2	3	38	9	13	5	22
		n in apogee. with		24	6	36	10	22	S	4	1	9	52	6	40
		B. Franklin d. 1790.		23	6	37	10	43	呗	4	20	10	31	7	34
		Moon near &. hail		21	6	39	11	4	呗	4	40	11	10	8	12
		Daybr'k 3 38. and		20	6	40	11	25	呗	ris	ses.	11	51	18	40
		4th Sun. aft. Easter.		19	6	41	11	45	15	7	15	mo	rn.	9	13
21	Mon	Byron d.1824. wind,	5	18	6	42	12	6	2	8	20	0	34	9	43
		Venus so. 10 32. or		16	6	44	12	26	TU	9	26	1	20	10	12
23	Wed	& s. 10 14. perhaps a	5								34				42
24	Thu	Josi. Quincy d.1775.	5	14	6	46	13	5	M	11	36	3	.3	11	13
25	Fri	Daybr'k 3 26. storm.	5								orn.				48
		Gen. Pike shot 1813.		12	6	48	13	44	1	0	32	4	57	ev.	20
27	Contract to the	Rogation Sunday.	5	10	6	50	14	3	73	1	18	5	54	1	12
28		J. Monroe bo. 1758.	5	9	6	51	14	22	13	1	58	6	50	2	12
		3 so. 9 45. Windy.		8	6	52	14	41	***	2	31	-7	43	3	35
		near Nept. Fair.		7	6	53	14	59	**	2	58	8	34	5	5

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?

5. MAY

Moon

New Moon, First Quarte Full Moon, Last Quarte

Day of Mon.	Day of Week.	E
- 1	Thu	St. P
2		o in
3	Sat	出る
4	Lane C	6th S
5	Mon	ne:
	Tue	Bat.
7	Wed	Dayb
8	Thu	n hig
9	Fri	& so.
10	Sat	d so. Riot
11	D	Pente
	Mon	eas
13	Tue	Dayb
14	Wed	napc
15	Thu	Puebl
16	Fri	ð so.
17	Sat	John .
	E	Trinit
	Mon	Daybi
20	Tue	ent ent
21	Wed	St. H
22	Thu	Moon
	Fri	J. Rai
24	Sat	Coper
25	E	Daybı
26	Mon	Joh. C
27	Tue	Q near

28 Wed N. We 29 Thu Cap. 1 30 Fri Moon