

## Phases of the Moon

The tables below contain data on the day of the year and the proportion of the moon visible.

Day of Year	1	4	7	10	14	20	24	29	34
Proportion of Moon Visible	0.02	0.22	0.55	0.83	1.00	0.73	0.34	0.00	0.28

Day of Year	41	44	48	53	56	59	63	70	74
Proportion of Moon Visible	0.92	1.00	0.86	0.41	0.12	0.00	0.23	0.88	1.00

1. Create a function to model the phases of the moon for an entire year.

2. What is the period of your function?  
What significance does it have in terms of our calendar?

3. List the dates when the moon is full.