Gravity (m/s^2)	Period experimental (s)	Period Theoretical (s)
10	1.42	1.41
9	1.49	1.49
8	1.58	1.58
7	1.69	1.69
6	1.83	1.83

T = 2pi sqrt(L/g)

As gravity decreases, the period of the pendulum increases. This means the pendulum swings more slowly when the gravitational force is weaker. There is an inverse square root relationship between gravity and the period.

T = 2pi sqrt(L/g) = 2pi sqrt(.5/6) = 2pi(0.2887)= 1.81s

The period would be approximately 1.81 seconds.