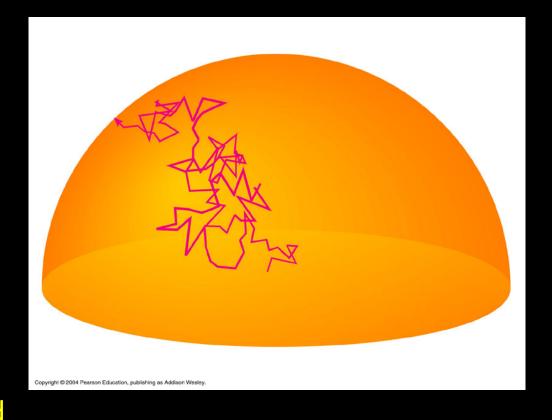
## Random Walk

$$d = \sqrt{n} * \ell$$

D=total straight line distance traveled N=number of steps taken l=Mean free path

How far does a photon need to go (straight line distance) to escape the sun?

Radius of Sun=695,500km



How far does it <u>actually</u> travel? At what speed?

Speed of light=3x108m/s

Mean free path in sun=ranges from 0.01cm in core to 0.3cm in outer layers