$$p = 14.63 \cdot 0.8^a$$

Atmospheric pressure, measured in pounds per square inch (psi) is the force exerted by Earth's atmosphere over a given area. The atmospheric pressure, p, exerted on an airplane flying at an altitude of a miles above sea level can be approximated by the model shown above. What is the best interpretation of 0.8^a in this equation?

A. If the airplane reaches the outer extent of the Earth's atmosphere, the atmospheric pressure will be $0.8\ \text{psi}$.

B. If the airplane is at sea level, the atmospheric pressure will be $0.8\ \text{psi}$.

C. For each mile that the altitude increases, the atmospheric pressure decreases 20%.

D. For each mile that the altitude increases, the atmospheric pressure increases 20%.