

$$H_0 = 71 \frac{\text{km/s}}{\text{Mpc}} = \frac{71 \text{km/s}}{3.09 \times 10^{19} \text{km}} = 2.3 \times 10^{-18} \text{s}^{-1}$$

$$\text{Age of universe} = \frac{1}{H_0} = 4.35 \times 10^{17} \text{s} = 1.38 \times 10^{10} \text{years} = 13.8 \text{ billion years}$$