

Incorrect. Find the intensity of noise for a whisper and a normal conversation:

$$30 = 10\log\left(\frac{w}{P_0}\right) \text{ and } 64 = 10\log\left(\frac{c}{P_0}\right)$$

Divide both equations by 10, rewrite as exponential equations, and multiply both sides by P_0 . Divide c by w to compare the two noises. Use the laws of exponents to simplify the quotient and evaluate, using a calculator.