Pulsed Wave Timing

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| **Across**  **2.** The equation (period)x(# of cycles) determines \_\_\_\_\_\_\_\_.  **3.** The equation (SPL/2) determines \_\_\_\_\_\_\_\_\_.  **4.** \_\_\_\_\_\_\_\_\_ refers to the physical dimension that the pulse occupies in space.  **8.** A short wavelength = \_\_\_\_\_\_\_\_ frequency and better resolution.  **12.** As frequency increases, the \_\_\_\_\_\_\_\_\_\_ decreases.  **13.** Pulse repetition is directly related to \_\_\_\_\_\_\_\_\_.  **15.** The equation (propagation speed)/(wavelength) determines?  **16.** Duty factor is \_\_\_\_\_\_\_ related to imaging depth.  **17.** PD relates to \_\_\_\_\_\_\_.  **19.** If PRP is \_\_\_\_\_\_\_\_\_, DF will be larger.  **21.** If wavelength increases, SPL \_\_\_\_\_\_\_\_\_.  **24.** PRF is the \_\_\_\_\_\_\_ of PRP.  **27.** \_\_\_\_\_\_\_\_\_\_\_ is the percentage of time that sound is actually being produced.  **28.** The units for wavelength are \_\_\_\_\_\_.  **29.** When PRP increases, \_\_\_\_\_\_\_\_\_ decreases. | **Down**  **1.** The distance from the beginning of one cycle to the end of it is?  **5.** The time it takes for a pulse to occur is \_\_\_\_\_\_\_\_\_\_.  **6.** The units for frequency are \_\_\_\_\_\_\_.  **7.** The units of PD are \_\_\_\_\_\_\_\_\_\_.  **9.** A \_\_\_\_\_\_ in pulse length will occur when wavelength is decreased.  **10.** Pulse duration is determined by the \_\_\_\_\_\_\_\_\_.  **11.** The "bigness" of a wave is \_\_\_\_\_\_\_\_.  **14.** PRF changes when \_\_\_\_\_\_\_ is adjusted.  **18.** The units for SPL are \_\_\_\_\_\_\_\_\_\_.  **20.** Propagation speed is the speed that a sound wave travels through?  **22.** \_\_\_\_\_\_\_\_\_\_ can be calculated by multiplying the number of cycles by the wavelength.  **23.** \_\_\_\_\_\_\_\_\_ includes "on" and "off" times.  **25.** The PRP will be decreased by half of the PRF is \_\_\_\_\_\_.  **26.** The \_\_\_\_\_\_ the propagation speed, the longer the wavelength. |