



1. In the image above, how many cycles of the waveform are displayed? _____
2. What is the waveform's period? _____
3. What is the waveform's frequency? _____

4. Using engineering prefixes in your answers, fill in the missing information in each row of the table below. Recall that

$$f = 1 \div t_p \quad \text{and} \quad t_p = 1 \div f$$

Period t_p	Frequency f
1.59 ms	
	3.40 kHz
88.6 μ s	
	862 kHz
47.9 ns	
	5.24 GHz

5. How long will it take to transmit an 8-bit binary string using **serial** transmission if the clock frequency is 25 MHz?
6. How long will it take to transmit an 8-bit binary string using **8-bit parallel** transmission if the clock frequency is 25 MHz?