

CMPT 433: Embedded Systems

Timer Calculation Worksheet

Equation for calculating period of time and timer clock frequency:

$$\text{Period} = \frac{0xFFFF FFFF - TLDR + 1}{\text{Timer Clock Frequency}} * 2^N \quad (1)$$

1. **Given an 8-bit timer with a 32Hz clock and no divider, find the maximum timer duration.**
2. **Given an 8-bit timer with a 32Hz clock, calculate the necessary divider and TLDR for a 200s period.**

- 2