

A block undergoes an oscillation of 60 cycles per minute. What is the frequency (in Hz) and time period (in sec) of oscillation?

Given:

Number of oscillation per minute: $n = 60$ cycles / min

Determine:

Frequency f of oscillation in Hz

Time period T of oscillation in sec

Frequency:

$$f = \text{cycles per second} = n / 60 = 60 / 60 = 1 \text{ Hz}$$

Time period:

$$T = 1 / f = 1 / 1 = 1 \text{ sec}$$