

## Answer on Question #77280 – Math – Geometry

### Question

While watching ocean waves at the dock of the bay, Otis noticed that 10 waves pass beneath him in 30 seconds what are the period and frequency of the waves?

### Solution

Given, no. of waves = 10

Time taken = 30 seconds

Hence, period of the waves = time taken / no. of waves during that time =  $30/10$  seconds  
= 3 seconds

Also, frequency of the waves = (waves during the time/ time taken) Hz =  $10/30$  Hz  
= 0.33 Hz

**Answer:** Period = 3 seconds, and frequency of waves = 0.33 Hz