IB Physics
FA12.0 - Basic Waves

Name_____

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Show your work, and circle your answers and use sig figs to receive full credit.

1. What is the frequency of a wave with a period of 0.00150150 s? What is the period of a 100. Hz wave?

2. What is the velocity of a wave that has frequency of 120. Hz and a wavelength of 2.85 m?

3. What is the wavelength of a light wave ($v = 3.00 \times 10^{8}$ m/s) with a frequency of 4.50×10^{14} Hz?

4. What is the frequency of a sound wave with a velocity of 343 m/s, and a wavelength of 24.0 cm?

5. A wave with a period of 0.125 s has a wavelength of 8.20 m. What is its velocity?