Wave characteristics revision questions

1. Explain, using diagrams, the difference between a transverse and a longitudinal wave (2)
2. Give an example of:

 a) a transverse wave

 and b) a longitudinal wave. (1)

1. Draw a copy of this wave in your jotter and label: wavelength, peak, trough, amplitude



1. The questions below refer to this diagram.

12 m

2 m

 (a) From the diagram calculate the wavelength of the waves shown. (1)

(b) What is the amplitude of these waves?

1. A wave travels 90 m in 30 s. Calculate the speed of the wave.
2. A wave has a wavelength of 0.5 m and a frequency of 4 Hz. What is its speed?
3. What is frequency?
4. What are the units for frequency?
5. 12 waves pass a point in 3 seconds. What is the frequency of the wave?