Practice Wave Questions

- 1. A microwave emits waves of 10cm. What is the frequency of the waves?
- 2. An oil tanker on the ocean is caught in a storm. The captain finds that the waves swell 30 times in 2 minute. The ship is 300m long and it takes a wave 90 seconds to travel the length of the ship. What is the wavelength of the water waves?
- 3. Two paddlers are in a boat 20m from shore. They find that the boat rocks up and down 16 times in 25 seconds. The also find that a single wave takes 5 seconds to travel between the boat and the shore. What is the wavelength of the water waves?
- 4. An adjacent trough and crest are 4m apart. If the waves travel at 100m/s, what is the frequency?
- 5. Draw a sine wave with an amplitude of 4cm and a wavelength of 6 cm. (Have a minimum of 3 full waves)