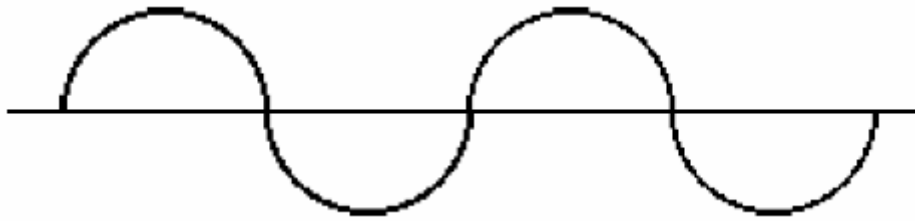


Drawing Transverse Waves Activity

PART 1.

In figure A. below, label the wave to show *wave length*, *amplitude*, *crest* and *trough*.

FIG. A



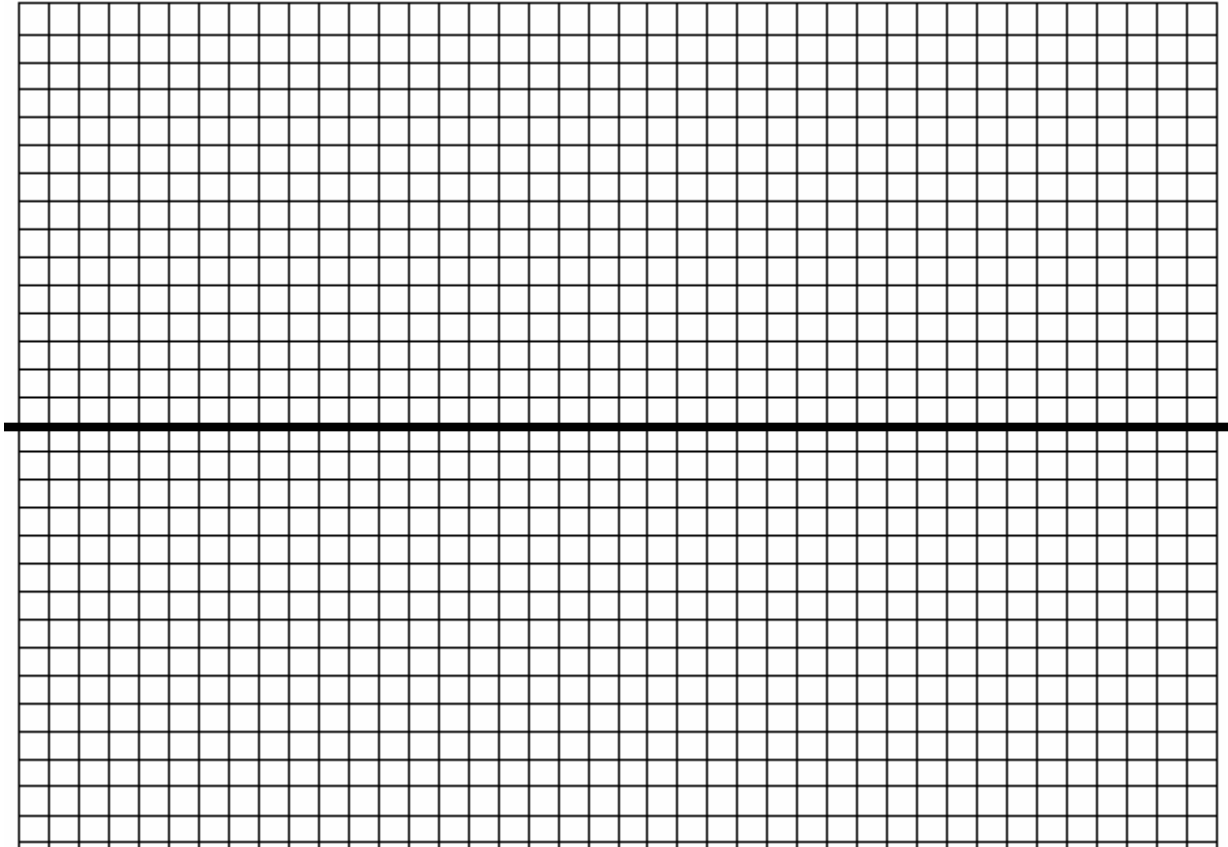
PART 2.

Using the wave in Figure A, measure the following: (mark the lengths you are measuring)

- a) wave length - _____ mm
- b) amplitude - _____ mm
- c) If the wave in Fig.A is traveling at a rate of 280mm/second, what is its frequency?
(show work below) _____ waves/sec

PART 3.

1. On the graph below, draw 3-cycles of a transverse wave with an amplitude of 3 cm and a wavelength of 5 cm. Label the *wave length*, *amplitude*, *crest* and *trough*.



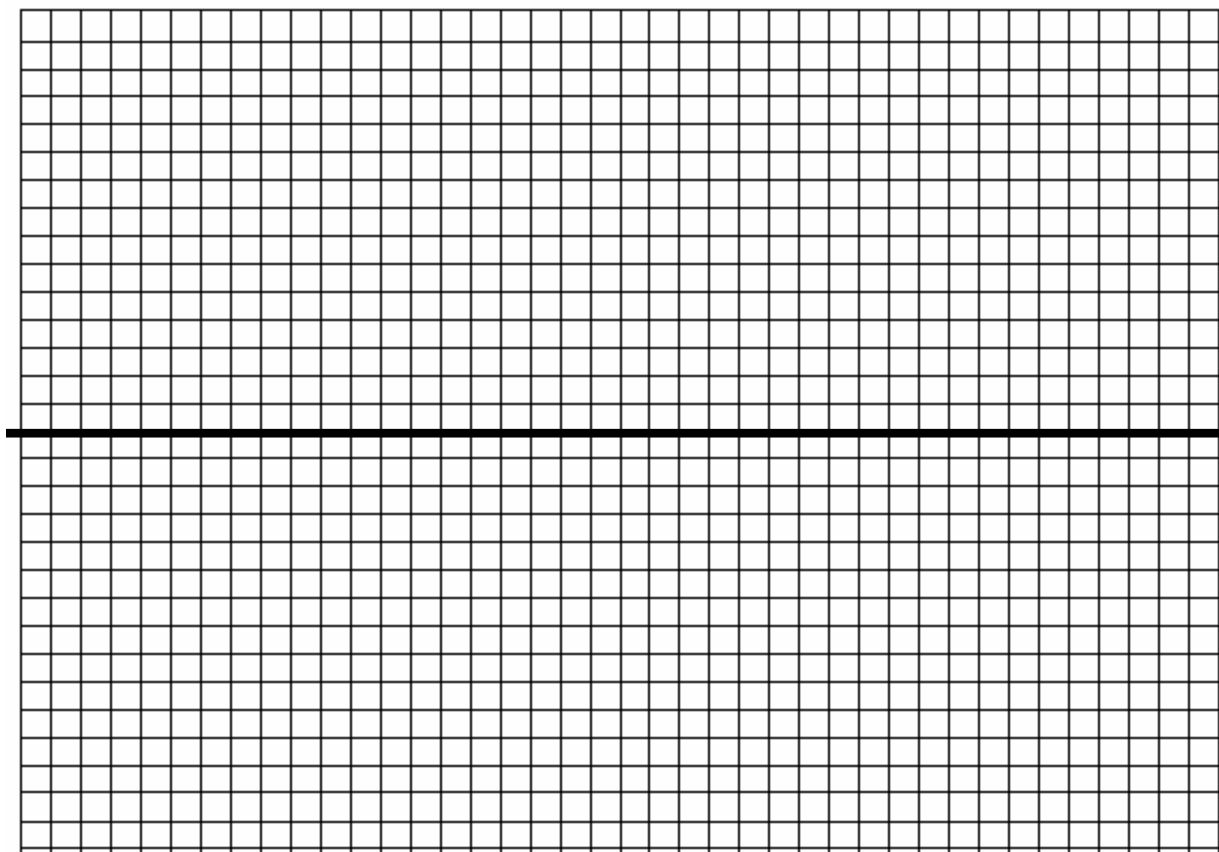
If 1 cycle occurs every 2 seconds, calculate:

Frequency

Period

Calculate the wave speed in cm/s

2. On the graph below, draw 3-cycles of a transverse wave with an amplitude of 5 cm and a wavelength of 2 cm. . Label the *wave length*, *amplitude*, *crest* and *trough*.



If 1 cycle occurs every 3 seconds, calculate:

Frequency

Period

Calculate the wave speed in cm/s

