3 Waves – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

3.1 Energy.
3.2 The distance of one full wave (e.g. from one crest to the next).
3.3 $v = f\lambda$ (speed = frequency × wavelength).
3.4 $v = f\lambda = 50 \times 6 = 300$ m/s.
3.5 (a) transverse \ (b) longitudinal.
3.6 Diffraction.

3.7 Rearrange $v = f\lambda$: $f = v/\lambda = 2/0.5 = 4$ Hz.