

1 Make reasonable estimates of the following quantities.

(a) mass of an apple

$$\text{mass} = \dots \text{kg} \quad [1]$$

(b) number of joules of energy in 1 kilowatt-hour

$$\text{number} = \dots \quad [1]$$

(c) wavelength of red light in a vacuum

$$\text{wavelength} = \dots \text{m} \quad [1]$$

(d) pressure due to a depth of 10 m of water

$$\text{pressure} = \dots \text{Pa} \quad [1]$$