

68. (a) Using $v = f\lambda$, we obtain

$$f = \frac{240 \text{ m/s}}{3.2 \text{ m}} = 75 \text{ Hz} .$$

(b) Since frequency is the reciprocal of the period, we find

$$T = \frac{1}{f} = \frac{1}{75 \text{ Hz}} = 0.0133 \text{ s} \approx 13 \text{ ms} .$$