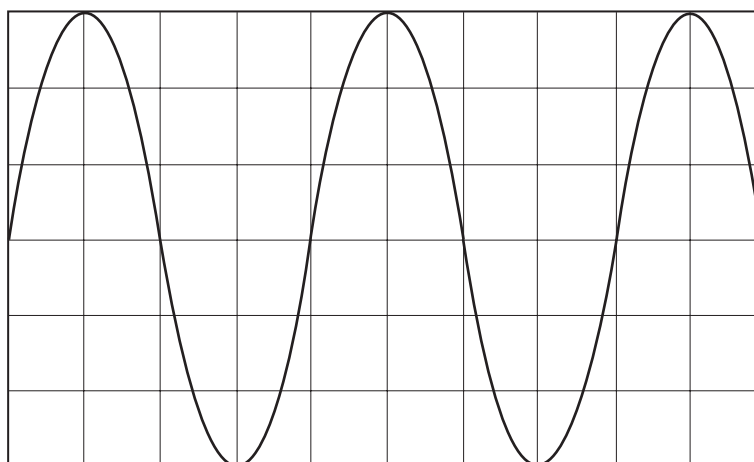


- 5 The cathode-ray oscilloscope (c.r.o.) display shows the waveform produced by an electronic circuit. The c.r.o. time-base is set at 10 ms per division.



What is the period of the signal shown?

- A** 20 ms **B** 30 ms **C** 40 ms **D** 80 ms
- 6 The resistance R of an unknown resistor is found by measuring the potential difference V across the resistor and the current I through it and using the equation $R = \frac{V}{I}$. The voltmeter reading has a 3% uncertainty and the ammeter reading has a 2% uncertainty.

What is the uncertainty in the calculated resistance?

- A** 1.5% **B** 3% **C** 5% **D** 6%
- 7 An experiment is done to measure the acceleration of free fall of a body from rest.

Which measurements are needed?

- A** the height of fall and the time of fall
B the height of fall and the weight of the body
C the mass of the body and the height of fall
D the mass of the body and the time of fall