

5. Which statement **best** outlines the difference between systematic and random errors?
Systematic errors

- (a) will consistently produce measured values either above or below the actual value, while random errors will produce measured values above and below the actual value.
- (b) can be reduced through multiple trials and averaging of results, while random errors cannot be reduced.
- (c) are generally accurate but not precise, while random errors are generally precise but may not be accurate.
- (d) are difficult to avoid, while random errors can be readily improved.