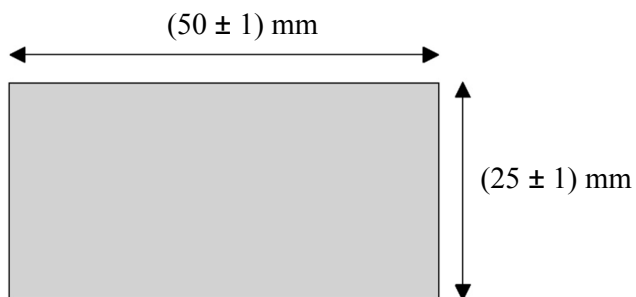


1. The lengths of the sides of a rectangular plate are measured, and the diagram shows the measured values with their uncertainties.



Which of the following is the best estimate of the percentage uncertainty in the calculated **area** of the plate?

- A. $\pm 2\%$
 - B. $\pm 4\%$
 - C. $\pm 6\%$
 - D. $\pm 8\%$
2. Which of the following represents two vector quantities?
- A. distance, acceleration
 - B. kinetic energy, work
 - C. force, momentum
 - D. electric field strength, electric potential