

Worksheet 7

Year 12 Physics

Write the answers in your Exercise Book.

1. For each of the following numbers, write the number of **significant figures**.

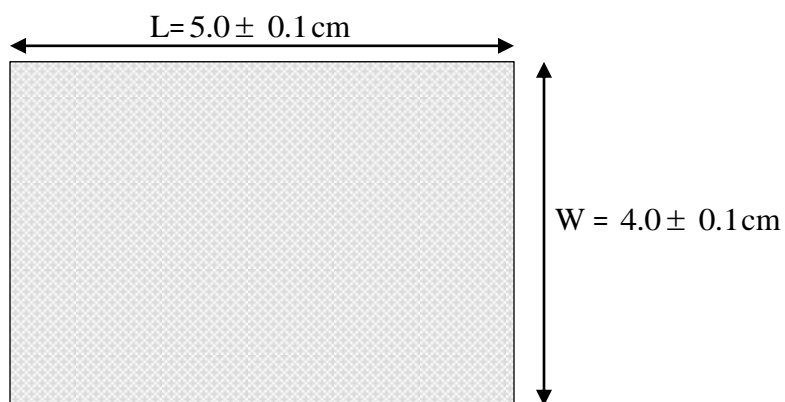
(a) 1.50 (1 mark)

(b) 0.0230 (1 mark)

(c) 1.003 (1 mark)

(d) 1.2×10^5 (1 mark)

2. A student measured the length and width of a rectangle as shown below.



(a) Find $L + W$ (1 mark)

(b) Find the **perimeter** of the rectangle. (2 marks)

(c) What is the **percentage** error in the measurement $5.0 \pm 0.1 \text{ cm}$? (1 mark)

(d) What is the **percentage** error in the measurement $4.0 \pm 0.1 \text{ cm}$? (1 mark)

(d) Calculate the **area** of the square with its absolute uncertainty. (2 marks)