

1 The length of a piece of paper is measured as 280 ± 1 mm. Its width is measured as 230 ± 2 %. Area A is the area of one side of the piece of paper.

(a) State the value of A and its actual uncertainty to the appropriate number of significant figures.

$$A = \dots \pm \dots \text{ mm}^2 [3]$$

(b) The accepted value of A is 8.00×10^4 mm 2 .

Use your answer in **(a)** to distinguish between *accuracy* and *precision*.

accuracy

.....

precision

.....

..... [2]

[Total: 5]