Answer ALL ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.
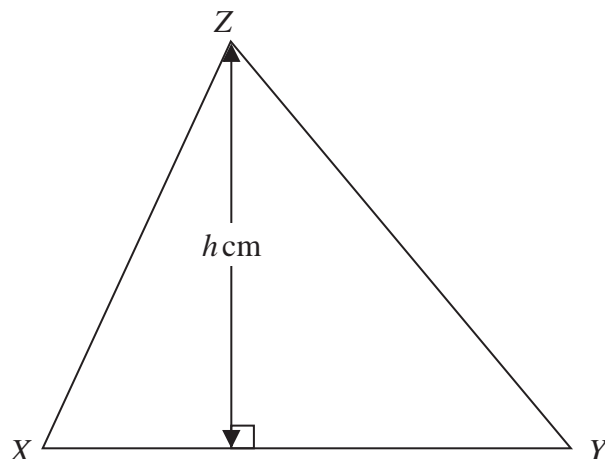
1

Diagram **NOT** accurately drawn

Figure 1

In Figure 1, $\triangle XYZ$ has base XY and height h cm.

The length of XY is 7.2 cm, to 2 significant figures.

(a) Write down the lower bound for the length of XY.

(1)

The area of $\triangle XYZ$ is 29 cm², to 2 significant figures.

(b) Write down the upper bound for the area of $\triangle XYZ$.

(1)

(c) Calculate, to 3 decimal places, the upper bound of h.

(2)

Question 1 continued

(Total for Question 1 is 4 marks)