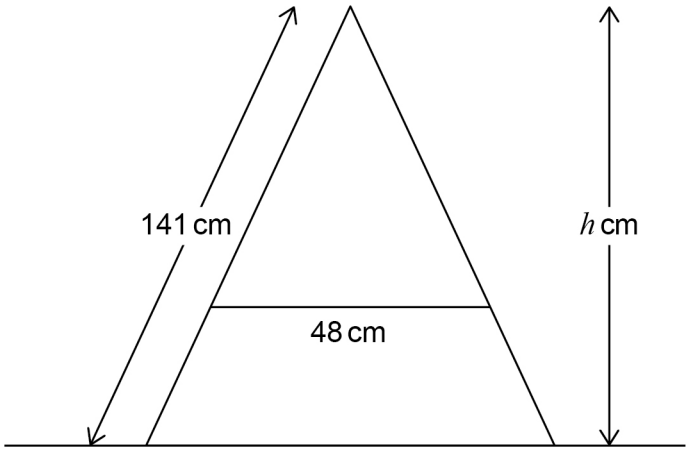
Do not write outside the box

23 The diagram shows the side view of a step ladder with a horizontal strut of length 48 cm

The strut is one third of the way up the ladder.

The symmetrical cross section of the ladder shows two similar triangles.

Not drawn accurately



Work out the vertical height, h cm, of the ladder.

[5 marks]

Answer _____ cm