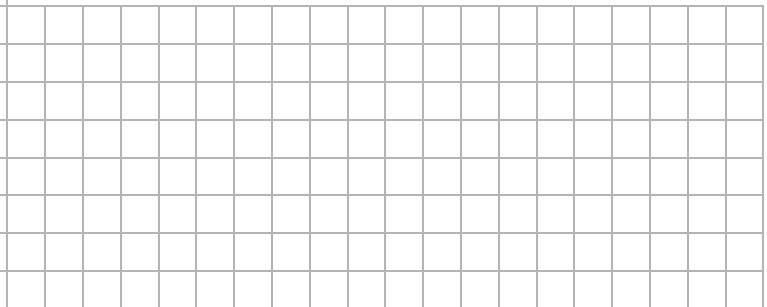
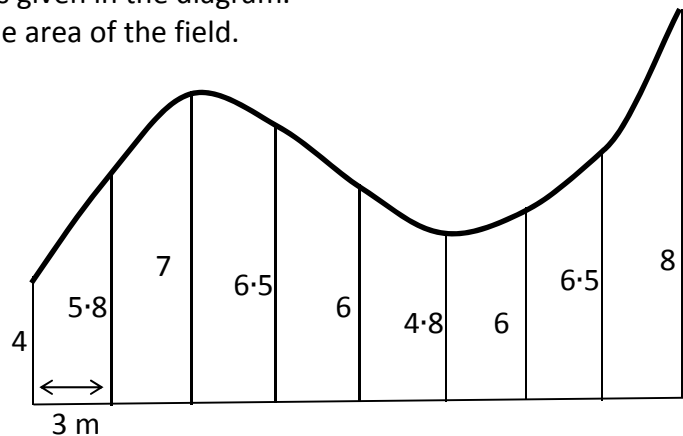
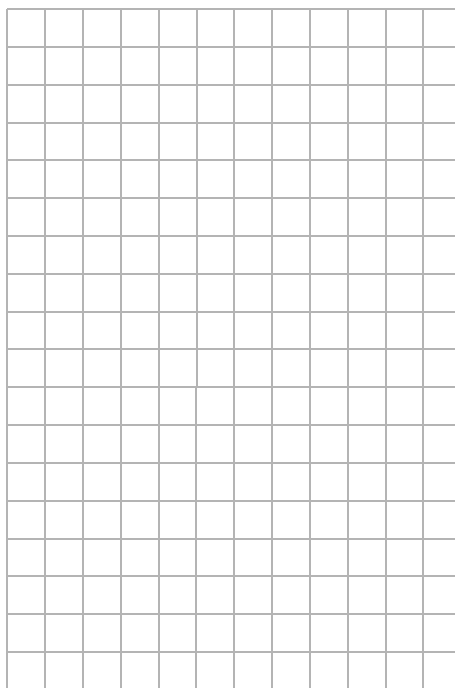


Question 5

(25 marks)

- (a) A field is divided into eight sections as shown below. The width of each section is 3 metres. The height, in metres, of each section is given in the diagram. Use the Trapezoidal rule to estimate the area of the field.



- (b) The area of the same field was re-estimated by applying the Trapezoidal rule again. This time, a different section width (4 m) and a different set of section heights were used, as shown below. The area was found to be 145.6 m^2 . Use this information to find the value of the height marked x on the diagram.

