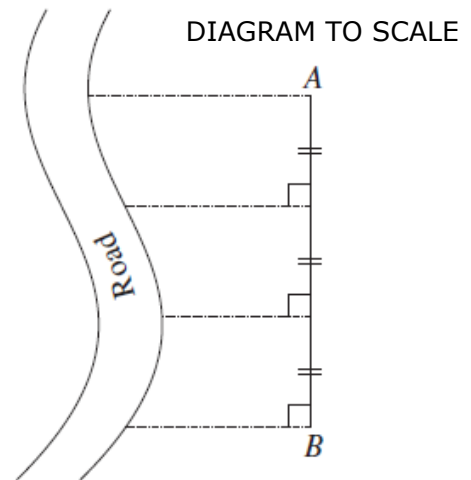




- SQ ME 28** The scale diagram shows the aerial view of a block of land bounded on one side by a road. The length of the block, AB , is known to be 45 metres.
Calculate the approximate area of the block of land, using three applications of the trapezoidal rule.

[A note to students from *projectmaths*: Use a ruler to measure AB as 4.5 cm]



3

Measurement $AB = 4.5$ cm

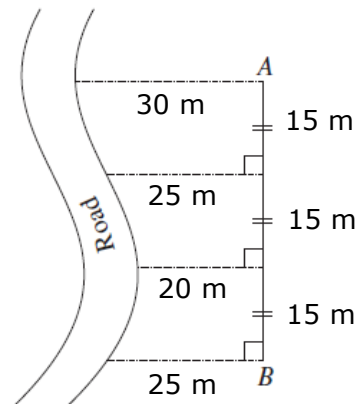
\therefore Scale: 4.5 cm = 45 m

1 cm = 10 m

$$\text{Area} \approx \frac{15}{2}(30 + 25) + \frac{15}{2}(25 + 20) + \frac{15}{2}(20 + 25)$$

$$= 1087.5$$

\therefore the area is about 1087.5 m².



* These solutions have been provided by [projectmaths](http://projectmaths.com.au) and are not supplied or endorsed by NESA.