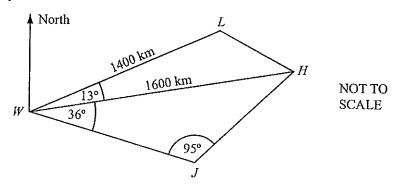
## IGCSE - Sine/Cosine Rule/Bearings - 2

May 06 Paper 4

2



The diagram shows the positions of four cities in Africa, Windhoek (W), Johannesburg (J), Harari (H) and Lusaka (L).

WL = 1400 km and WH = 1600 km.

Angle  $LWH = 13^{\circ}$ , angle  $HWJ = 36^{\circ}$  and angle  $WJH = 95^{\circ}$ .

- (a) Calculate the distance LH. [4]
- (b) Calculate the distance WJ. [4]
- (c) Calculate the area of quadrilateral WJHL. [3]
- (d) The bearing of Lusaka from Windhoek is 060°. Calculate the bearing of
  - (i) Harari from Windhoek, [1]
  - (ii) Windhoek from Johannesburg. [1]
- (e) On a map the distance between Windhoek and Harari is 8 cm.

  Calculate the scale of the map in the form 1:n.

  [2]