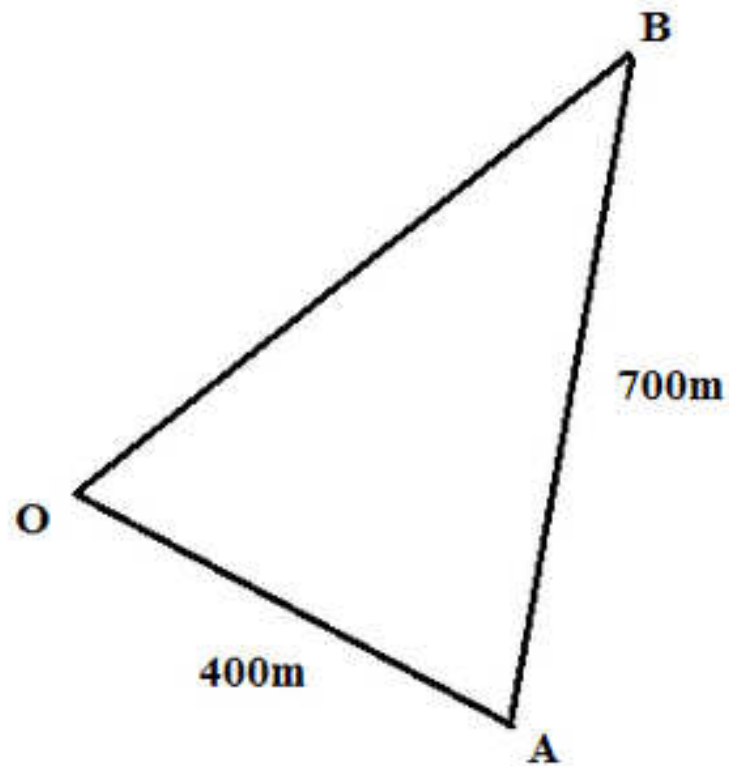


- 1** A man walks 400m from O to A on a bearing of  $124^\circ$  and then 700m from A to B on a bearing of  $025^\circ$ . Find the distance and the bearing of the final position from his starting point.

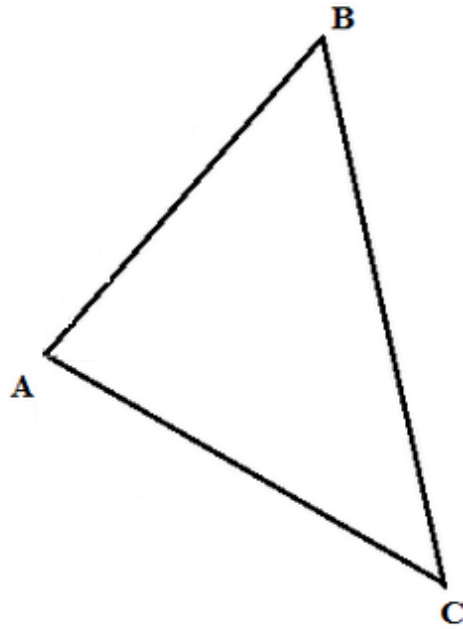


**2**

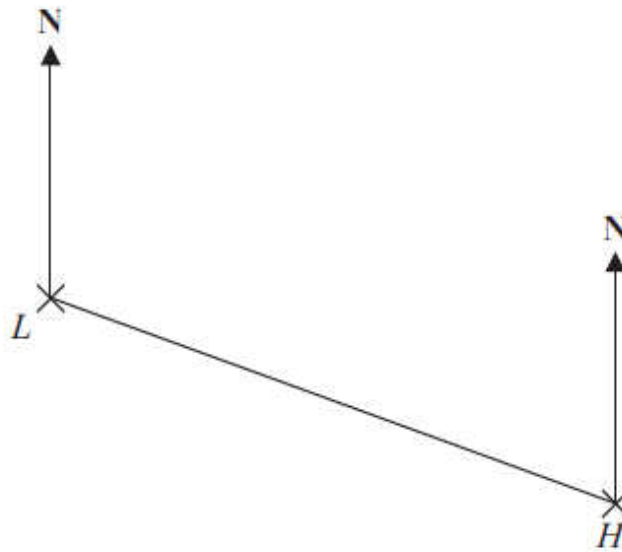
**The diagram shows three cities A, B and C.  
AB=80 km, BC=120 km and AC=100 km.**

**The bearing of B from A is  $051^\circ$ .**

**Find the bearing of C from A and the  
bearing of C from B.**



- 3** The diagram shows the position of a lighthouse  $L$  and a harbour  $H$ .



The scale of the diagram is 1 cm represents 5 km.

(a) Work out the real distance between  $L$  and  $H$ .

(b) Measure the bearing of  $H$  from  $L$ .

A boat  $B$  is 20 km from  $H$  on a bearing of  $040^\circ$ .

(c) On the diagram, mark the position of boat  $B$  with a cross ( $\times$ ).  
Label it  $B$ .

- 4 Amy is on a bearing of  $070^\circ$  from Bill and on a bearing of  $290^\circ$  from Carl. On a copy of the diagram mark Amy's position with a cross and label it A.**

**X**  
**B**

**X**  
**C**