

## 11F Context Problems notes

1. A girl walks 2km due east from a fixed point O to A, and then 3km due south from A to B.

Find:

- a) The total distance travelled
- b) The position vector of B relative to O
- c)  $\overrightarrow{OB}$
- d) The bearing of B from O

2. In an orienteering exercise, a cadet leaves the starting point O and walks 15km on a bearing of 120 to reach A, the first checkpoint. From A he walks 9km on a bearing of 240 to the second checkpoint, at B. From B, he returns directly to O. Find:
- The position vector of A relative to O

b)  $|\overrightarrow{OB}|$

- c) The bearing of B from O

- d) The position vector of B relative to O