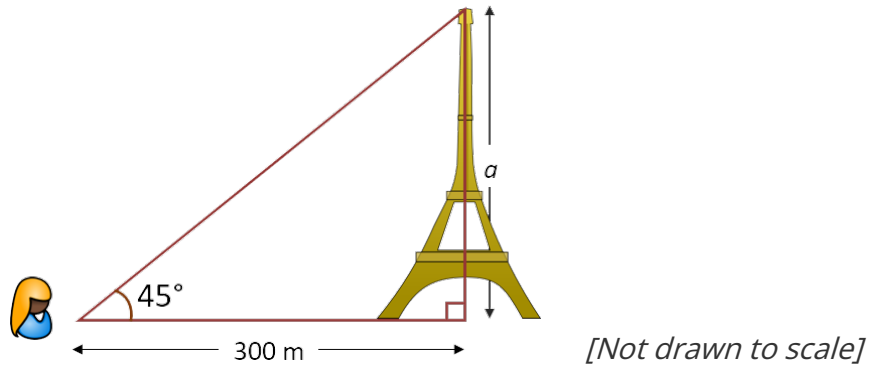


Calculating distance III

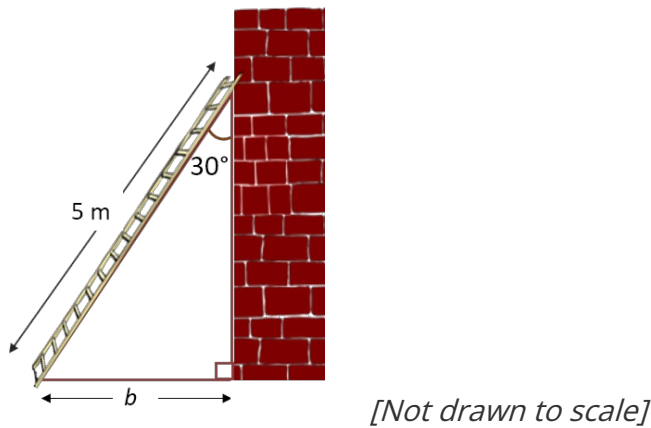
This task is about using trigonometry to calculate distances in practical problems.

- a) Emily was standing 300 metres from the Eiffel Tower.
The angle from where she stood to the top of the tower was 45° .



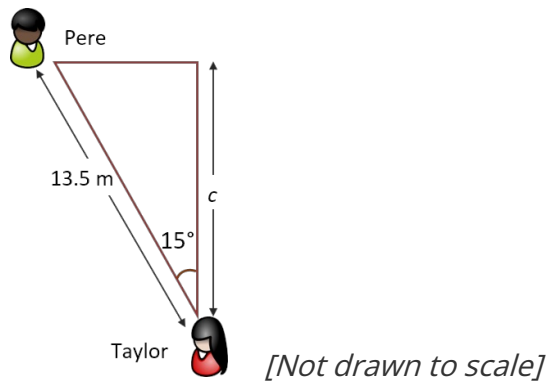
Calculate the height of the Eiffel Tower, as shown by 'a'. m

- b) The top of a 5-metre ladder makes an angle of 30° with the side of a building.



Calculate the distance the ladder is from the building at ground level, as shown by 'b'. m

- c) Taylor walks across a road at an angle of 15° and a distance of 13.5 metres to Pere on the other side.



How wide is the road, as shown by 'c'? m