

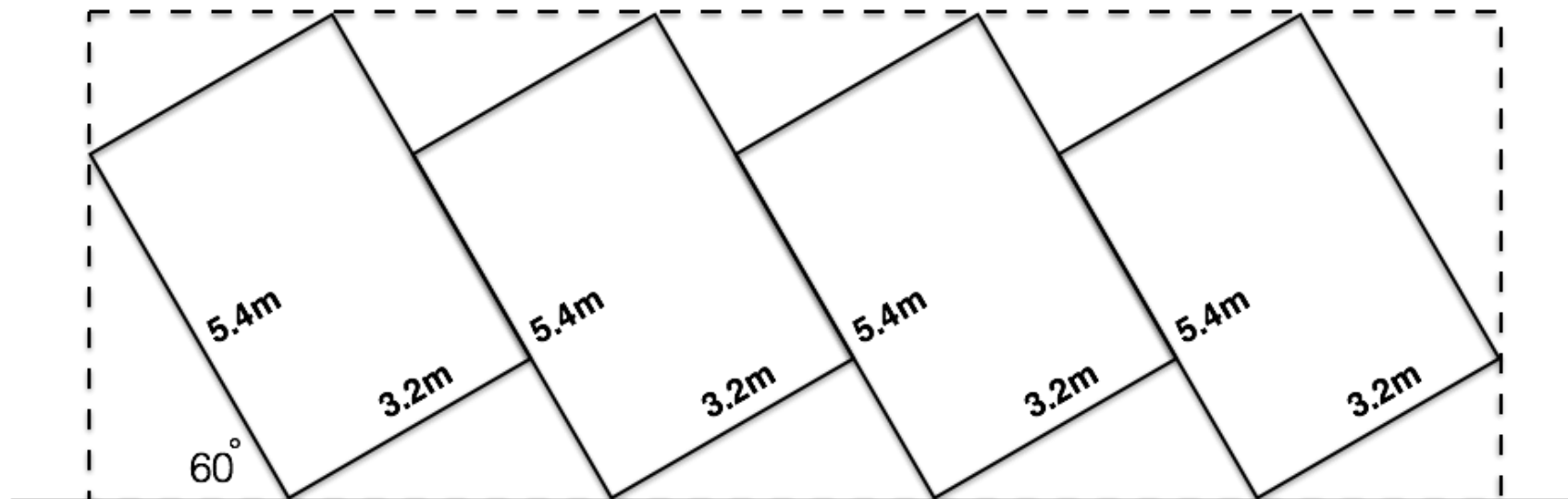


# PARKING ANGLES

In Sydney, Australia, it is part of the regulations of the city that angled parking bays are at **60° to the horizontal**.

One way to decide if this is a good angle, is to consider the **length and width of the road** that bays at that angle would take up.

- 1) For the set of **rectangular parking bays\*** below, find length (left to right) and the width (across) of the rectangular section of road (marked out with dashed lines) that the set of four bays take up. The diagram is **not to scale**.

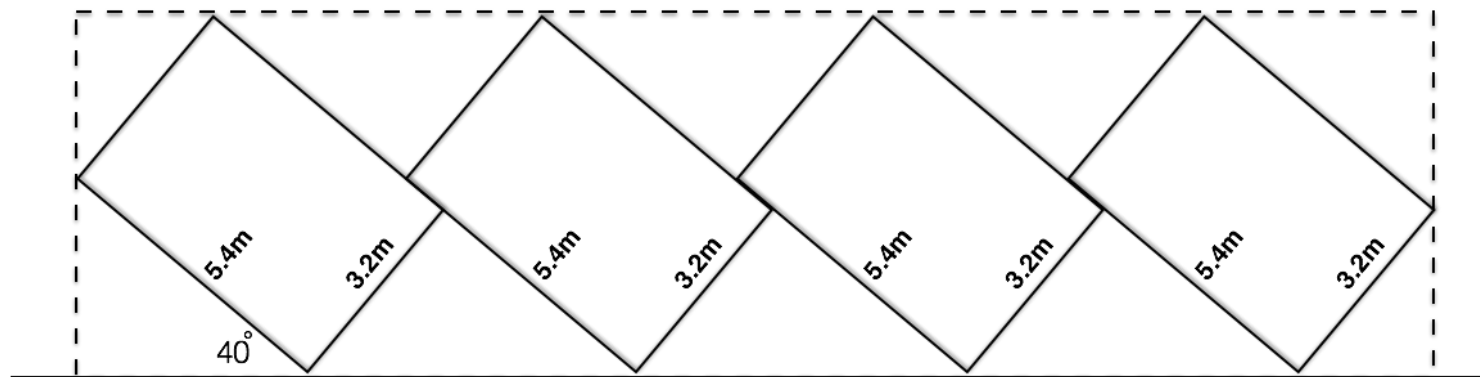


\*These are the dimensions for the disabled parking bays in Sydney.



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- 2) If the same bays were at  $40^\circ$  to the horizontal, they would look like this. Describe how the length (left to right) and width (across) of the section of the road compares to when the bays are at  $60^\circ$ ? The diagram is **not to scale**.



The **worst parking angles** are those that use up the greatest length or the greatest width of the road.

- 3) Which parking bay angle takes up the **greatest width of road** for the bays featured above?

Which parking bay angle takes up the **greatest length of road** for the bays featured above?