

# Extending the deck

This task is about working out area.

The Jacobs have a diamond-shaped deck. Its measurements are shown in Diagram 1.

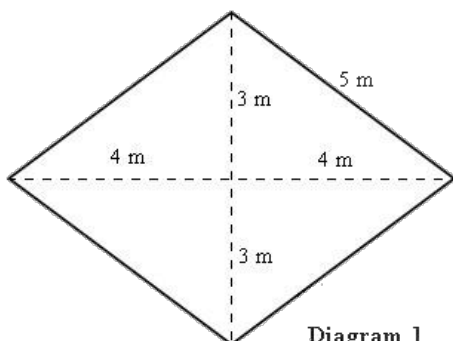


Diagram 1

a) What is the total **area** of the deck?  m<sup>2</sup>

They decide to extend the deck on one side. This is shown by the thick dotted lines (.....) in Diagram 2.

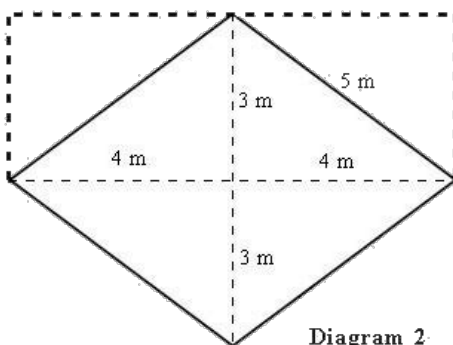


Diagram 2

b) What is the total **area** of the deck now?  m<sup>2</sup>