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[5]

1. You need to move a 124.0-kg sofa to a different location in the room. It takes a force of 131 N to start it moving. What is the coefficient of static friction between the sofa and the carpet? Justify your answer.

[7]

2. The coefficient of static friction between a 40.0 -kg picnic table and the ground below it is 0.38. What is the greatest horizontal force that could be exerted on the table while it remains stationary? Justify your answer.
