

<u>Special Maths Academy Problem</u> <u>Corner for April 2022</u>

## **Instructions: Provide clearly written and well** explained solutions. Submissions should be made on our website: https://specialmaths.ng/problem-corner/

Find all positive integers m, n, such that it is possible that in a group of *n* people, everyone shakes hand with exactly *m* persons. Handshake is mutual.

Proposed by Mmesomachi.