

<b>Name</b>	<b>Ent. No.</b>
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**Important:** Keep your answer within the box. Anything written outside the box will be treated as rough work. Do your rough work on the flip side of this sheet.

**Q.** A roller coaster has  $n$  carriages each with 2 seats.  $n$  married couples, let each couple comprise one man and one woman to make things simple, want to ride the roller coaster. Each carriage must have one man and one woman but no couple must be seated with each other in the same carriage. In how many ways can they be seated?