

MR AND MRS SMITH

Mr and Mrs Smith, recently divorced, attend a dinner party with 4 other couples all of whom are still happily married.

The guests are to sit at a round table with ten seats according to the following rules:

- Mr and Mrs Smith are not to be seated next to one another nor directly opposite one another
- The other 4 couples would like to be seated as couples

How many different seating plans are there?

