

Title: Some problems involving the symmetric group on three letters.

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Abstract: The symmetric group on three letters is the only finite group in which any two elements of the same order are conjugate. This was proved by Feit- Seitz and Fitzpatrick. It is conjectured that the symmetric group on three letters is also the only finite group in which any two elements with the same conjugacy-class size are conjugate. We will survey variations of these two statements.