

a

The diagram shows a 15-puzzle state labeled 'a'. It consists of a 4x4 grid of tiles numbered 1 through 15. The tiles are arranged as follows: Row 1: 2; Row 2: 8; Row 3: 3, 9, 10, 12, 13, 14; Row 4: 6, 7, 11; Row 5: 1, 15; Row 6: 4; Row 7: 5. Dashed horizontal lines are placed between rows 1 and 2, 2 and 3, 3 and 4, 4 and 5, 5 and 6, and 6 and 7.