A hotel elevator allows no more than 7 people in simultaneously.

Several people entered the elevator on the ground floor. The elevator made four stops on the route up — on the 15th, 29th, 37th, and on the topmost, 40th floor. On each floor but the 40th the number of people entering the elevator was always exactly half as many as the number of people exiting the elevator. On the 40th floor just one man stepped out of the elevator, leaving the elevator empty.

Knowing that the overall number of people delivered totally to the 15th, 29th, 37th, and 40th floors is not a prime number, can you say how many people entered the elevator on the ground floor?