

Incorrect. The correct system is:

$$2a + 3c = 28$$

$$a + c + 2s = 22$$

$$s = c + 1, \text{ or } -c + s = 1$$

Multiply the third equation by  $-2$  and add it to the second equation to eliminate  $s$ . Together with the first equation you have a system of two equations and two variables. The correct answer is 8.