Un Beau Scarecrow

Nevaeh is creating a scarecrow for the display at the local fall fair. She wants to dress her scarecrow with a shirt, pants, hat, and scarf.

She goes through her old wardrobe box and her closet and finds the following items:

- one pair of torn blue jeans;

- a plaid shirt and a flowered shirt;

- an orange hat and a striped hat;

- a red scarf, a striped scarf, and a green scarf.

a) In how many different ways can Nevaeh dress her scarecrow?

b) What is the probability that her scarecrow is wearing jeans? No jeans?

c) What is the probability that her scarecrow is wearing an orange hat?

d) Find a combination of clothing items for the scarecrow which has a probability of $\frac{1}{4}$. [There are several answers.]