2.72 For a certain population of employees, the percentage passing or failing a job competency exam, listed according to sex, were as shown in the accompanying table. That is, of all the people taking the exam, 24% were in the male-pass category, 16% were in the male-fail category, and so forth. An employee is to be selected randomly from this population. Let A be the event that the employee scores a passing grade on the exam and let M be the event that a male is selected.

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Outcome	Male (M)	Female (F)	Total	
Pass (A)	24	36	60	
Fail (\overline{A})	16	24	40	
Total	40	60	100	

a Are the events A and M independent?

b Are the events \overline{A} and F independent?

