III. Answer the following questions based upon this study of money spent on souvenirs at a virtual reality theme park.

Money spent on souvenirs / Age	Under $5	$5 and over	Totals
Under 22	5	15	20
22 and older	20	20	40
Totals	25	35	60

A. Use a formula to calculate the P(Age < 22 or Age ≥ 22).

B. The events in question A are _____ _____ and therefore,

the _____ rule for _____ is applicable.

C. Use a formula to calculate the probability of someone being at least 22 years old and spending $5 and over.

D. Question C required the _____ rule for _____ because

the events are _____.

E. Use Bayes' theorem to calculate the probability of someone at least 22 years old spending $5 or more.

F. Using the above chart, calculate the probability of someone at least 22 years old spending less than $5.

G. Why does your answer to question F make sense?