MA 110 WORKSHEET (8.2)"EXTRA WORKSHEET 4"

Name _____

Blood Type	Male M	Female F	TOTALS
O	80	370	450
A	150	250	400
B	50	50	100
AB	20	30	50
TOTALS	300	700	1,000

Use the table to find the probability that a person is selected at random from the group

A.   has blood type B? P(B)

B.   is female **and** has blood type B? P(F ∩ B)

C.   the person is female **or** has blood type B? P(F ∪ B)

D.   is female? P(F)

E.   is female **and** does not have blood type B? P(F ∩ B′)