Name $\qquad$

| Blood Type | Male <br> M | Female <br> 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 $B$ ? $P(B)$
(sum of row $B$ )/ $1000=100 / 1000$
B. is female and has blood type $B$ ? $P(F \cap B)$
(Row B intersect column F)/ $1000=50 / 1000$
C. the person is female or has blood type $B$ ? $P(F \cup B)$
(sum of column F plus row $B$ intersect column $M$ )/1000
$(370+250+50+30+50) / 1000=(700+50) / 1000=750 / 1000$
D. is female? $P(F)$
$($ Sum of column $F) / 1000=700 / 1000$
E. is female and does not have blood type $B$ ? $P\left(F \cap B^{\prime}\right)$
(Sum of column F without row B)/1000
$(700-50) / 1000$ or $(370+250+30) / 1000=650 / 1000$

