Name $\qquad$ Solutions

The table below gives the distribution of favorite new movies by gender.

| Movie Name | Male | Female | TOTAL |
| :---: | :---: | :---: | :---: |
| I Am Legend | 500 | 300 | 800 |
| The Golden Compass | 200 | 250 | 450 |
| August Rush | 240 | 400 | 640 |
| Enchanted | 10 | 300 | 310 |
| TOTAL | 950 | 1250 | 2200 |

A person is selected at random from this group. What is the probability that the person selected (Do not simplify - leave your answers in their original fractional form)
A. is female or lists Enchanted as their favorite movie
$(1250+10) / 2200=1260 / 2200$
B. is female and lists Enchanted as their favorite movie $300 / 2200$
C. is female given they list Enchanted as their favorite movie 300/310
D. is male given they list I Am legend as their favorite movie 500/800
E. is male or does not list I Am Legend as their favorite movie $(950+250+400+300) / 2200$
F. lists August Rush as their favorite movie given they are female 400/1250

