Name _____ Math-2A HW # 11-5 (2-way Tables) Period _____

Fill in the rest of the table. The tables lists the outcome of tests for Tuberculosis (a fatal lung disease). A "+" test means the result of the test indicates a person HAS TB. Sometimes these quick tests are inaccurate. If a person tests "+" the doctors will give a more accurate (and more expensive) test.

tested: 995 Tested Positive and have TB: 361

Have TB: 380 Tested Positive and do not have TB: 62

	"+" Test	"—" Test	Total
Have TB	361	(Question 1)	380
Don't have TB	62	(Q-2)	(Q-3)
Total	(Q-4)	(Q-5)	995

Answer the following questions from your table:

6. P(have TB) = ?
7. P(do not have TB) = ?
8. P(have TB and tested positive for TB) = ?
9. P(Have TB and tested negative for TB) = ?
10. P(Don't have TB and tested positive for TB) = ?
11. P(Don't have TB and tested negative for TB) = ?
12. P(Don't have TB *given that* they tested positive for TB) = ? (Conditional probability!!!)
13. P(Don't have TB given that they tested negative for TB) = ?
14. P(Have TB *given that* they tested negative for TB) = ?
15. P(Have TB *given that* they tested positive for TB) = ?
16. P(Tested negative *given that* they don't have TB) = ?
17. P(Tested negative *given that* they have TB) = ?
18. P(Tested positive *given that* they don't have TB) = ?
19. P(Tested positive *given that* they have TB) = ?

Fill in the remainder of the 2-way table then answer the rest of questions on the homework.

	Right handed pitcher	Left handed pitcher	Total
Right handed batter	15	(Q-20)	34
Left handed batter	(Q-21)	8	(Q-22)
Total	35	(Q-23)	(Q-24)

25. P(RHB) = ?
26. P(LHB) = ?
27. P(RHP) = ?
28. P(LHP) = ?
29. P(RHB and RHP) = ?
30. P(RHB and LHP) = ?
31. P(LHB and RHP) = ?
32. P(LHB and LHP) = ?
33. P(RHB / RHP) = ?
34. P(RHP / RHB) = ?
35. P(LHB / RHP) = ?
36. P(LHP / RHB) = ?