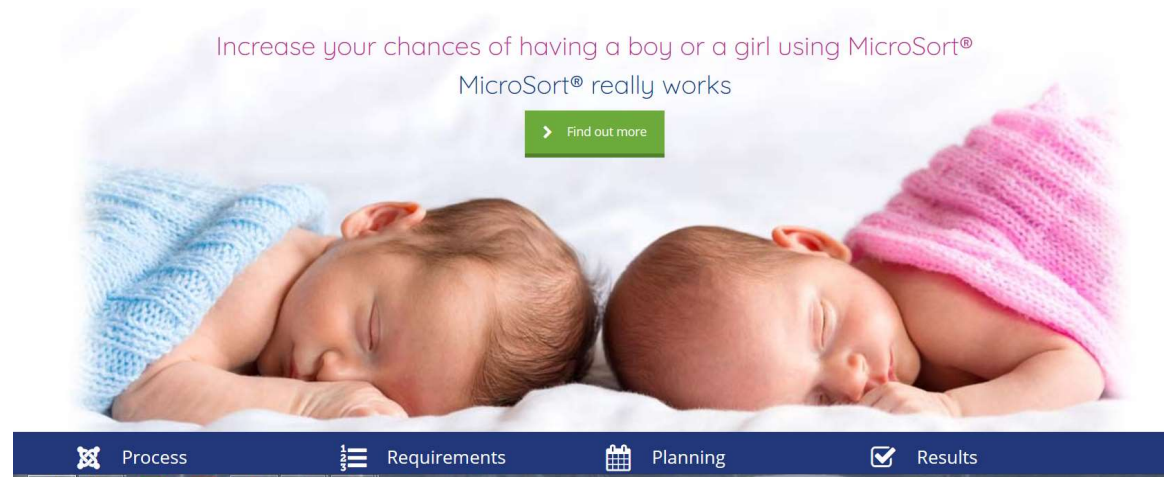


# Exercises for Nov 23

# Exercise: Does the MicroSort Method of Gender Selection Increase the Likelihood That a Baby Will Be a Girl?



In clinical trials, among 945 babies born to parents who used the XSORT method in trying to have a baby girl, 879 couples did have baby girls, for a success rate of 93%. Under normal circumstances with no special treatment, girls occur in about 50% of births. **Can we actually support the claim that the XSORT technique is effective in increasing the probability of a girl?**

## Exercise 7

A pharmaceutical company claims that one of its drugs is effective in 90% of cases. In a sample of 200 people who used it, the drug proved effective in 160 cases. Determine if the pharmaceutical company's claim is legitimate with a significance level of  $\alpha=0.01$ .