

Show all necessary work and place your answers in/on the spaces provided.

Qatar Illiteracy.

In 2000, the United Nations claimed that there was a higher rate of illiteracy in men than in women from the country of Qatar. A humanitarian organization went to Qatar to conduct a random sample. The results revealed that 45 out of 234 men and 42 out of 251 women were classified as illiterate on the same measurement test. Do these results indicate that the United Nations findings were correct?

1. Test an appropriate hypothesis and state your conclusion.
2. Find a 95% confidence interval for the difference in the proportions of illiteracy in men and women from Qatar. Interpret your interval.