

**Instructions:** For each question, submit a file or hardcopy (as directed by your instructor) containing the following...

- Your name.
- A statement of the research question.
- Confirmation that the conditions for the chi-square test are satisfied (this will be easier if you first run the StatCrunch analysis).
- A screenshot of your StatCrunch results, that must contain both the observed and expected counts, and the P-value for the test.
- A hypothesis test in our four-step format that addresses the question. Your conclusion must include an interpretation of the P-value.
- A sentence interpreting the conclusion in terms a member of the public could understand.

- 1) Is there an association between taking prenatal vitamins and autism? A New York Times article in 2011 reported on a study that compared mothers of autistic children with those whose children showed typical development. The table shows the number of mothers in each group who did and did not use prenatal vitamins during the three months before pregnancy.

Is there an association?

	Autism	Typical Development
Vitamin	111	70
No Vitamin	143	159

