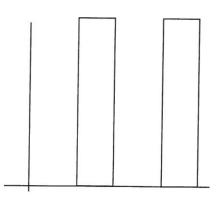
## Smoking and Education

200 adults shopping at a supermarket were asked about the highest level of education they had completed and whether or not they smoke cigarettes. Results are summarized in the table.

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| 1. | Discuss | uic | WY S. |

|               | Smoker | Non-smoker | Total |
|---------------|--------|------------|-------|
| High school   | 32     | 61         | 93    |
| 2 yr college  | 5      | 17         | 22    |
| 4+ yr college | 13     | 72         | 85    |
| Total         | 50     | 150        | 200   |

- 2. Identify the variables.
- 3. a) What percent of the shoppers were smokers with only high school educations?
  - b) What percent of the shoppers with only high school educations were smokers?
  - c) What percent of the smokers had only high school educations?
- 4. Create a segmented bar graph comparing education level among smokers and non-smokers. Label your graph clearly



5. Do these data suggest there is an association between smoking and education level? Give statistical evidence to support your conclusion.

6. Follow-up question: Does this indicate that students who start smoking while in high school tend to give up the habit if they complete college? Explain.