

**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.

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

1. Discuss the W's.

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.