Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

INTRO TO STATISTICS – MS. KLIMCZUK

Chapter 2 Example Problems

**Example 1: Sneakers**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sneaks/Gender** | **Girls** | **Boys** | **Totals** |
| **Wearing** | **14** | **21** | **35** |
| **Not Wearing** | **20** | **3** | **23** |
| **Totals** | **34** | **24** | **58** |

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1. What is the marginal frequency distribution of wearing sneakers?
2. What is the marginal frequency distribution of girls?
3. What percent of sneaker-wearers are girls?
4. What percent of the girls are sneaker-wearers?
5. What percent of the class are girls who are wearing sneaks?
6. Sketch a SEGMENTED BAR GRAPH.
7. Are the variables *gender* and *wearing sneaks* associated or independent? How do we decide?

**Example 2: Politics**

|  |  |  |  |
| --- | --- | --- | --- |
| **Politics/Gender** | **Girls** | **Boys** | **Totals** |
| **Liberal** | **2** | **1** | **3** |
| **Moderate** | **29** | **13** | **42** |
| **Conservative** | **2** | **8** | **10** |
| **Totals** | **33** | **22** | **55** |

1. What is the marginal frequency distribution of moderate?
2. What percent of liberals are girls?
3. What percent of the girls are liberals?
4. What percent of the class are girls with moderate political views?
5. Sketch a SEGMENTED BAR GRAPH.
6. Are the variables *gender* and *political view* associated or independent? How do we decide?