

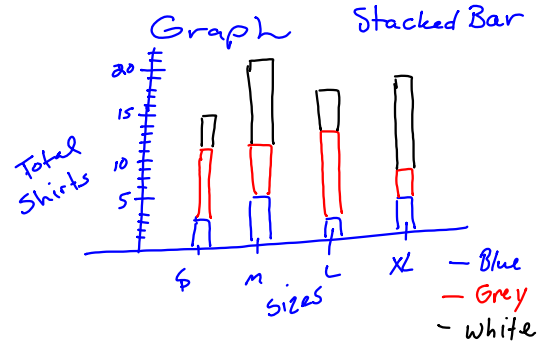
### 3.1 Matrices and Graphs

What is a matrix  
 What is it used for  
 How does it relate  
 to graphs

Matrices is a way  
 to display information  
 in an organized fashion.  
 based on rows and columns

A store sells T-shirts in  
 3 colors and 4 sizes

		Sizes				
		S	M	L	XL	
color	Blue	3	5	2	4	14
	Grey	8	6	10	3	27
	White	4	10	6	12	32
		15	21	18	19	



Reading Matrices  
 Labels

Tables and bar graphs

### 3.2 Mean, Median, Mode and Range

"Average"

A good representation  
 of the data set

mean - "Average"  $\frac{\text{sum of values}}{\text{number of values}}$

73, 75, 77, 77, 83

$$\frac{385}{5} = 77$$

Median "middle"

make sure in numerical order

odd - find exact middle

73, 75, 77, 77, 83

even - find mean of middle two

12, 15, 16, 18, 19, 23  $\frac{16+18}{2} = \frac{34}{2} = 17$   
 median = 17

Mode - "most"

73, 75, 77 77, 83 mode: 77

12, 13, 15, 16, 18, 19, 23

No number appears more than once  
 "No mode"

63, 64, 64, 65, 71, 71, 73, 77  
 64 and 71

2, 2, 2, 3, 4, 4, 7, 7, 5, 5, 11

13, 15, 15, 17, 18, 19, 23, 23

mode: 2

Range - Highest - Lowest

↳ Outliers

65, 68, 71, 73, 95

2, 12, 13, 13, 15, 17