Examine the differences between qualitative and quantitative data.

Qualitative Data	Quantitative Data
- Deals with descriptions. - Data can be observed but not measured. - Colors, textures, smells, tastes, appearance, beauty, etc. **Qualit**ative → **Qualit**y	- Deals with numbers. - Data which can be measured. - Length, height, area, volume, weight, speed, time, temperature, humidity, sound levels, cost, members, ages, etc. **Quantit**ative → **Quantit**y
Example 1: *Oil Painting* - blue/green color, gold frame - smells old and musty - texture shows brush strokes of oil paint - peaceful scene of the country - masterful brush strokes	**Example 1:** *Oil Painting* - picture is 10" by 14" - with frame 14" by 18" - weighs 8.5 pounds - surface area of painting is 140 sq. in. - cost $300
Example 2: *Latte* - robust aroma - frothy appearance - strong taste - burgundy cup	**Example 2:** *Latte* 12 ounces of latte - serving temperature 150º F. - serving cup 7 inches in height - cost $4.95
Example 3: *Freshman Class* - friendly demeanors - civic minded - environmentalists - positive school spirit	**Example 3:** *Freshman Class* 672 students 394 girls, 278 boys 68% on honor roll 150 students accelerated in mathematics