**Qualitative Observations vs. Quantitative Observations Worksheet**

All of the observations in this worksheet were qualitative; that is, you observed a quality about an object (it smelled good, it was green, etc.). Another type of observation is quantitative, meaning that it can be described or measured in concrete numerical terms.

* The following observations are quantitative: There are 30 students in my class. I weigh 98 pounds. I ate a pound of potatoes.

Determine which of the following statements are quantitative and which are qualitative.

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| \_\_\_\_\_1. The cup had a mass of 454 grams.  \_\_\_\_\_2. The temperature outside is 250o C.  \_\_\_\_\_3. It is warm outside.  \_\_\_\_\_4. The tree is 30 feet tall.  \_\_\_\_\_5. The building has 25 stories.  \_\_\_\_\_6. The building is taller than the tree.  \_\_\_\_\_7. The sidewalk is long.  \_\_\_\_\_8. The sidewalk is 100 meters long.  \_\_\_\_\_9. The race was over quickly.  \_\_\_\_\_10. The race was over in 10 minutes.  \_\_\_\_\_11. The petunia had purple petals.  \_\_\_\_\_12. Teddy is 61” tall, Christian is 6” taller than that.  \_\_\_\_\_13. The liquid in the beaker was cloudy.  \_\_\_\_\_14. There was 500 milliliters of water used.  \_\_\_\_\_15. The doughnut shop had a sweet smell  \_\_\_\_\_16.  \_\_\_\_\_17.  \_\_\_\_\_18.  **For numbers 16-18 above, write your own quantitative and qualitative observation. You must create one of each and the remaining is your choice.** | A. Qualitative  B. Quantitative  Reflection 1: Describe how you can use the prefixes of the words above to understand what type of observation you are using. |