**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. QualitativeB. QuantitativeReflection 1: Describe how you can use the prefixes of the words above to understand what type of observation you are using. |