

QUALITATIVE VS. QUANTITATIVE WORK SHEET

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. 1 ate a pound of potatoes.

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

1. _____ The cup had a mass of 454 grams.
2. _____ The temperature outside is 25° 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.

KEY FOR TEACHER

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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. 1 ate a pound of potatoes.

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

1. Quant. _____ The cup had a mass of 454 grams.
2. Quant. _____ The temperature outside is 25° C.
3. Qual. _____ It is warm outside.
4. Quant. _____ The tree is 30 feet tall.
5. Quant. _____ The building has 25 stories.
6. Qual. _____ The building is taller than the tree.
7. Qual. _____ The sidewalk is long.
8. Quant. _____ The sidewalk is 100 meters long.
9. Qual. _____ The race was over quickly.
10. Quant. _____ The race was over in 10 minutes.