

# Qualitative vs Quantitative Observations

**Qualitative** observations use your senses to observe the results. (Sight, smell, touch, taste and hear.)

**Quantitative** observations are made with instruments such as rulers, balances, graduated cylinders, beakers, and thermometers. These results are measurable.

Read the following examples and then decide if the example is qualitative (1) or quantitative (2).

1. It is light green in color. \_\_\_\_\_ (1 or 2)
2. It taste sour. \_\_\_\_\_ (1 or 2)
3. One leaf is 9 cm long. \_\_\_\_\_ (1 or 2)
4. It makes a loud pop sound. \_\_\_\_\_ (1 or 2)
5. The mass of the computer is 1 1/2 kg. \_\_\_\_\_ (1 or 2)
6. It smells sweet. \_\_\_\_\_ (1 or 2)
7. The temperature of the room increases by 8 degrees C. \_\_\_\_\_ (1 or 2)
8. It gets darker over a period of time. \_\_\_\_\_ (1 or 2)
9. The flower clusters in 3 blooms. \_\_\_\_\_ (1 or 2)
10. Feels very rough. \_\_\_\_\_ (1 or 2)
11. The plant is short. \_\_\_\_\_ (1 or 2)
12. Leaves are stiff. \_\_\_\_\_ (1 or 2)
13. The veins are 3 mm wide. \_\_\_\_\_ (1 or 2)

Write a *qualitative* example:

Write a *quantitative* example:

What type of observation do you think is more scientific and why?

# Qualitative vs Quantitative Observations

**Qualitative** observations use your senses to observe the results. (Sight, smell, touch, taste and hear.)

**Quantitative** observations are made with instruments such as rulers, balances, graduated cylinders, beakers, and thermometers. These results are measurable.

Read the following examples and then decide if the example is qualitative (1) or quantitative (2).

1. It is light green in color. 1 (1 or 2)
2. It taste sour. 1 (1 or 2)
3. One leaf is 9 cm long. 2 (1 or 2)
4. It makes a loud pop sound. 1 (1 or 2)
5. The mass of the computer is 1 1/2 kg. 2 (1 or 2)
6. It smells sweet. 1 (1 or 2)
7. The temperature of the room increases by 8 degrees C. 2 (1 or 2)
8. It gets darker over a period of time. 1 (1 or 2)
9. The flower clusters in 3 blooms. 2 (1 or 2)
10. Feels very rough. 1 (1 or 2)
11. The plant is short. 1 (1 or 2)
12. Leaves are stiff. 1 (1 or 2)
13. The veins are 3 mm wide. 2 (1 or 2)

Write a **qualitative** example:

Answers will vary.

Write a **quantitative** example:

Answers will vary.

What type of observation do you think is more scientific and why?

Answers will vary.