Scientific Method Worksheet

Sponge Bob Clean Pants
Sponge Bob noticed that his favorite pants were not as clean as they used to be. His friend Sandy told him that he should try using Clean-O detergent, a new laundry soap she found at Sail-Mart. Sponge Bob made sure to wash one pair of pants in plain water and another pair in water with the Clean-O detergent.

1. What is the Problem?

2. Write a hypothesis for Sponge Bob.
   If...
   
   Then...
   
   Because...

3. What is the independent variable?

4. What is the dependent variable?

After washing both pairs of pants a total of three times, the pants washed in the Clean-O detergent did not appear to be any cleaner than the pants washed in plain water.

5. What should Sponge Bob conclude?

6. Are these results reliable? Why or Why not?
Super Bubbles

Patrick and Sponge Bob love to blow bubbles! Patrick found some Super Bubble Soap at Sail-Mart. The ads claim that Super Bubble Soap will produce bubbles that are twice as big as bubbles made with regular bubble soap. Patrick and Sponge Bob made up two samples of bubble solution. One sample was made with 5 oz. of Super Bubble Soap and 5 oz. of water, while the other was made with the same amount of water and 5 oz. of regular bubble soap. Patrick and Sponge Bob used their favorite bubble wands to blow 10 different bubbles and did their best to measure the diameter of each one. The results are shown in the chart.

1. What is the Problem?

2. Write a hypothesis for Sponge Bob.
   If...
   Then...
   Because...

3. What is the independent variable?

4. What is the dependent variable?

5. What is the average diameter for each bubble solution?

6. What should their conclusion be?

7. Are these results reliable? Why or Why not? If not how can they make them more reliable?