

Differentiate each below

Name: _____

Observation (O) or Inference (I)

- _____ 1. The pencil is 5 inches long
- _____ 2. The water is cloudy
- _____ 3. The water is unhealthy to drink
- _____ 4. The man has rough hands
- _____ 5. He must be a carpenter
- _____ 6. The plants died when they were not watered
- _____ 7. A person who is crying must be sad
- _____ 8. The room smells like flowers

Problem (P) or Exercise (E)

- _____ 1. $3+2+7-1+6$
- _____ 2. Find the roots of $x^2 + 6x - 12 = 0$
- _____ 3. Changing the spark plugs in your car
- _____ 4. Opening your lock
- _____ 5. A 6th grader opening his lock for the first time
- _____ 6. Hitting a baseball with a bat
- _____ 7. Solving 1 side on a Rubik's cube
- _____ 8. Tying shoelaces

Pure (P) or Applied (A) science

- _____ 1. Figuring out what mood a chameleon is in based on its color.
- _____ 2. Finding electrical uses for graphite molecules
- _____ 3. Determining the composition of the atmosphere of Jupiter
- _____ 4. Finding the closest black hole to our solar system
- _____ 5. Making a synthetic bat out of cheap, light and strong alloys
- _____ 6. Finding a way to handle and shape spider silk
- _____ 7. Knowing the fossil ancestors of horses
- _____ 8. Finding a medical application for snake venom