

8 Acids, bases, and pH – Part 1 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 an acid is a proton (H^+) donor; a base is a proton acceptor.

2.2 it dissociates completely, splitting fully into ions.

2.3 $\text{pH} = -\log(0.10) = 1.0$.

2.4 $\text{pH} = -\log(1 \times 10^{-5}) = 5.0$.

2.5 100 times more acidic –each pH unit is a ten-fold change, and 3 to 5 is two units ($10 \times 10 = 100$).