

types of problems involving monoprotic acids or bases

problems that begin with...		videos
pure water		(3)*
strong acid		(1)*, (1)-(2)*
strong base		(4)*
weak acid		(5)*, (5)-(6)**
weak base (not covered in the biochem video)		(6)*
weak acid and its conjugate base (buffer solution)		(7)-(9)*, (4)***
strong acid and strong base	less base than acid	(10)-(11)*, (2)-(3)**
	equal amounts of acid and base	(12)*, (4)**
	more base than acid	(13)*, (4)-(5)**
weak acid and strong base	less base than acid	(16)*, (6)-(7)**
	equal amounts of acid and base	(17)-(18)*, (7)-(8)**
	more base than acid	(9)-(10)**
strong acid and weak base	less acid than base	(15)*
	equal amounts of acid and base	
	more acid than base	
weak acid and its weak conjugate base, plus strong acid	less strong acid than weak base	(2)-(3)***
	equal amounts of strong acid and weak base	
	more strong acid than weak base	
weak acid and its weak conjugate base, plus strong base	less strong base than weak acid	(4)-(6)***
	equal amounts of strong base and weak acid	
	more strong base than weak acid	

*[Acids and bases. Calculating pH. Titrations](#) **[Calculating pH for acid-base titrations](#)

***[Buffers. The Henderson-Hasselbach equation](#)