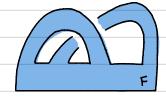
1 a) Let F be a seifert enface for some knot K C S³. Proh the interior of Finto D⁴. Show that The of the complement of this new emface in D⁴ is 74.

b) Let F be the punchined torns shown below, after the interior is pushed into B4. Angre directly (i.e. without using any Engery Kirby dragrams) that the boundary of the complement is the 3-torus s1xs1xs1.



2a) Redo HW 5.2.c woing Kirby diagrams.

HWS-2-c: If $\Delta := \Delta_1 \sqcup \Delta_2 \sqcup \cdots \sqcup \Delta_k$ is a collection of notation disco for an n-component link L, give a presentation for the notion group $\pi_1(D^4 \backslash A)$.

b) Show that the boundary of a robbon disc complement for a knot k is a Dehn oungery on K. bohat is the framing / Dehn engery coefficient? Anopre that the same is time for a stice disc for K. (Recall that a stice disc for K is any encosts D → D⁴ with ∂D² = K. In fact, any flat D² → D⁴ with ∂D² = K also enffices.)