



1, **Make the support tower:** Assemble a unit of popsicle sticks like this to construct the support tower. Make 4 of these units.



2. Join the four units like this. Glue onto the cardboard base.



3. Make the cantilever: Make additional units (for the support tower) and join them as above. Here, we used three units.



4. Attach the cantilever to the support tower. In this example, we used two arms of three units each for the cantilever. We attached them to the support tower and then joined them at the point where they extend. (Red and green sticks meeting and hot-glued together.) You will have to tape down (or weight down) the cardboard base as a counterweight before testing. Otherwise, the whole thing will just tip over.



5. Test the weight. We used one 28-oz can of tomatoes plus one 13-oz can of dog food. The cantilever was strong and held the weight. Our cantilever held 41 oz., more than two pounds.