

















THE ONE WITH THE GREATEST PROBABILITY OF SUCCESS.











YEAH. FINALS. BEST OF THREE. IF I CAN WIN ONE MORE...



WORRY NOT.
WITH YOUR SUPERIOR SPEED
AND AGILITY, I
WOULD GIVE YOU
A GREATER THAN
95% CHANCE
DE WINNING
ANY GIVEN-





AGAINST TITANIUM



YOUR
CHANCE OF
WINNING
IS ZERD
PERCENT.







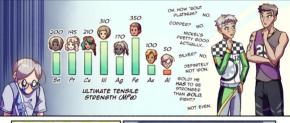
















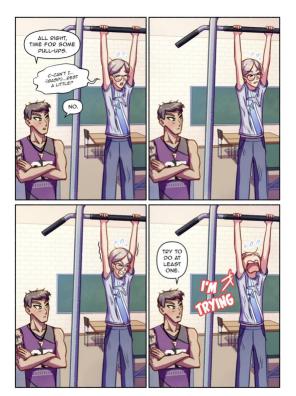














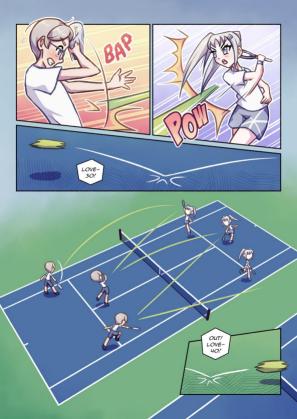




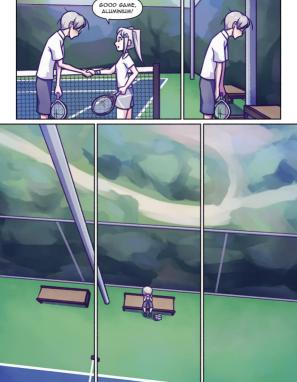












































COPPER! I'LL NEVER BE STRONG NO MATTER HOW HARD I TRY!



























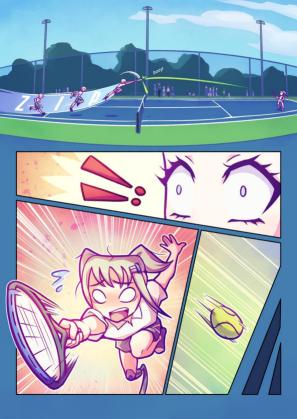


















































TENSILE STRENGTH IS THE AMOUNT OF PULLING STRESS A MATERIAL CAN WITHSTAND WITHOUT BREAKING. IT CAN VARY GREATLY DEPENDING ON THE MATERIAL'S IMPURITIES AND HOW IT WAS MANUFACTURED, SO I GOT CONFLICTING RESULTS TRYING TO FIND EXACT TENSILE STRENGTHS FOR THE PURE ELEMENTS. HOWEVER, IT WAS PRETTY MUCH UNIVERSALLY AGREED THAT ALUMINIUM SITS ON THE WEAKER END.



I ENDED UP TAKING THE TENSILE STRENGTHS FROM HOWATSON, LUND, AND TODO'S ENGINEERING TABLES AND DATA (3RD ED.), EXCEPT FOR MAGNESILM'S, WHICH WAS TAKEN FROM THE MATWER DATARASE.

MATWEE HAS TENSILE STRENGTHS FOR SO MANY MATERIALS! I WAS ABLE TO FIND ALL THE RARE EARTHS ON THERE, AS WELL AS SOME REACTIVE/RADIOACTIVE ELEMENTS SUCH AS SODIUM (IS MP3) AND PLUTONIUM (400 MP3), WHICH I REALLY DIDN'T EXPECT TO SEE! I WAS ALSO ABLE TO FIND DATA FOR DIFFERENT METAL-MAKING METHODS, SUCH AS ANNEALING AND COLD-WORKING.

THEN I GOT IP-BANNED FOR MAKING TOO MANY QUERIES.



FATIGUE STRENGTH (ALSO KNOWN AS FATIGUE LIMIT) IS THE AMOUNT OF STRESS BELOW WHICH A MATERIAL CAN WITHSTAND AN INFINITE NUMBER OF CYCLES. IF A MATERIAL DOESN'T HAVE A FATIGUE STRENGTH, THEN ANY AMOUNT OF STRESS, NO MATTER HOW SMALL, WILL CAUSE IT TO BREAK IF APPLIED TOO MANY TIMES, IRON AND TITANIUM HAVE FATIGUE STRENGTHS. ALLIMINIUM DOESN'T.



BUT EVEN THOUGH ALUMINIUM IS PRETTY WEAK ON ITS OWN, IT CAN BECOME AS STRONG AS STEEL WHEN ALLOYED WITH OTHER ELEMENTS! MAGNESIUM, MANGANESE, ZINC, COPPER, AND SILICON ARE ALL COMMONLY USED IN ALUMINIUM ALLOYS.



BY THE WAY, COPPER'S ROBOT ARM IS REAL! IT'S BASED ON THE TITAN ARM, DEVELOPED BY STUDENTS AT THE UNIVERSITY OF PENNSYLVANIA.

IT PROBABLY WON'T MAKE YOU STRONGER THAN "THE TITAN" THOUGH.