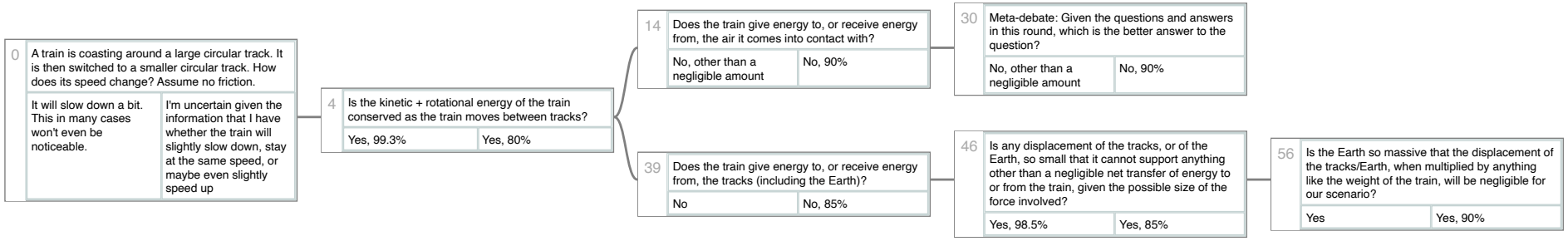
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A train is coasting around a large circular track. It is then switched to a smaller circular track. How does its speed change? Assume no friction.
It will slow down a bit. This in many cases won't even be noticeable.
I'm uncertain given the information that I have whether the train will slightly slow down, stay at the same speed, or maybe even slightly speed up
4
Is the kinetic + rotational energy of the train conserved as the train moves between tracks?
Yes, 99.3%
Yes, 80%
14
Does the train give energy to, or receive energy from, the air it comes into contact with?
No, other than a negligible amount
No, 90%
30
Meta-debate: Given the questions and answers in this round, which is the better answer to the question?
No, other than a negligible amount
No, 90%
39
Does the train give energy to, or receive energy from, the tracks (including the Earth)?
No
No, 85%
46
Is any displacement of the tracks, or of the Earth, so small that it cannot support anything other than a negligible net transfer of energy to or from the train, given the possible size of the force involved?
Yes, 98.5%
Yes, 85%
56
Is the Earth so massive that the displacement of the tracks/Earth, when multiplied by anything like the weight of the train, will be negligible for our scenario?
Yes
Yes, 90%