

Connected bodies (table top)

Questions

1. What is the acceleration of the blocks when both masses are equal?
2. What is the tension in the string when both masses are equal?
3. What is the acceleration when mass of the body on table is double the mass suspended?
4. What is the ratio of masses so that acceleration is $g/2$?
5. What is the acceleration if tension in the string is equal to the weight of the body on the table?
6. Is it correct to say that acceleration of both the masses is equal?

Note :

While simulations help to provide valuable insights and visualizations, a rigorous mathematical solution should always be considered as a benchmark, demonstrating not just familiarity with the concept, but a deep understanding of the underlying principles.

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