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| **PH 201 Post-Lab 06** | **Friction** | **Name** |  |

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| Consider the situation shown above. The coefficient of static friction is 0.60, and the coefficient of kinetic friction is 0.45. |
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| 1. The two blocks are at rest. Assume the block mass is 0.250 kg, and the hanging mass is 0.075 kg. What is the static friction force acting on the block mass? |
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| 2. What is the maximum possible static friction force that could act on the block before it starts to move? |
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| 3. How much mass would the hanging mass have to achieve this maximum static friction force? |
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| 4. If the masses were moving, assuming the mass of the block is still as 0.250 kg what is the magnitude of the kinetic friction force acting on the block? |
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