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| Net Force Noteguide |
| There is a 17 N force of friction between a 20. kg box and the floor.  A) If it is sliding to the right, and I exert a force of 78 N to the right, what is the acceleration of the box? (3.05 ≈ 3.1 m/s/s to the right) |
| There is a 17 N force of friction between a 20. kg box and the floor.  B) If it is sliding to the left, and accelerating at 2.3 m/s/s to the left, what force must be acting on it? (63 N left) |
| There is a 17 N force of friction between a 20. kg box and the floor.  C) If it is sliding to the right at 6.0 m/s, and slides to a halt in 15 m, what other force must be acting on the box besides the friction force? (7.0 N left) |

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| A 5.0 kg mass hangs on a string with a tension of 65 N. What is the acceleration of the mass? 5.0 kg  5.0 kg |
| A 510 kg elevator accelerates downwards at 1.5 m/s/s. What is the tension in the cable supporting it?  510 kg |
| A 1350 kg elevator moving downwards at 5.31 m/s arrests its motion in 2.10 seconds. What is the tension in the elevator as it stops?  1350 kg |