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## Single-Body Force Problems

1. Neal is stealing a refrigerator from the bank. The mass of the refrigerator is 173 kg and its kinetic friction has a magnitude of 254 N. How hard must he push it forward in order to accelerate it at  $1.27 \text{ m/s}^2$ ?

2. Joe pulls up on a rope attached to a 5.5-kg bucket. The bucket accelerates at  $2.1 \text{ m/s}^2$ . With what force did Joe pull?

