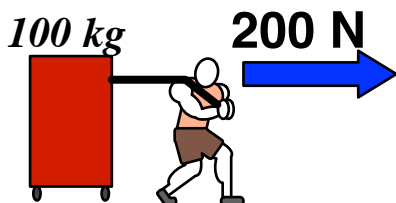
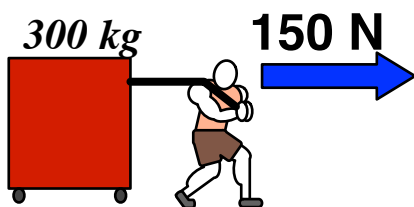
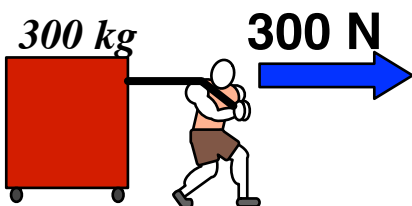
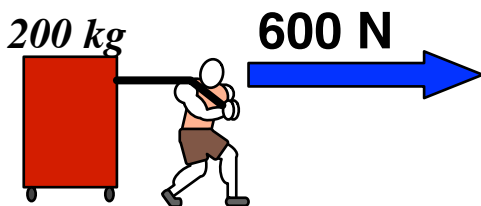
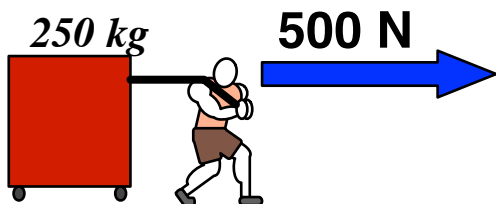
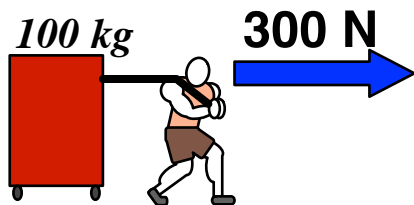


Speed Up Rate

Name: _____

Calculate the rate of speed up: Show your work



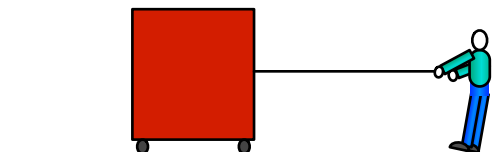
If each one started from rest (0 m/s), determine their speeds after 3 seconds.

For full credit, show your work!

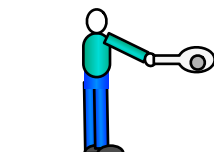
The person pushes the 120 kg crate with a force of 120 N. If the crate starts from rest (0 m/s), how fast will it be going after 4 seconds?



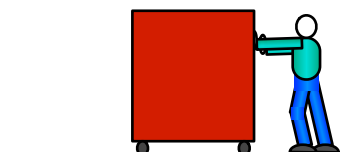
The person pulls the 80 kg crate with a force of 160 N. If the crate was already moving to the right at 1 m/s, how fast will it be going after 2 seconds?



The person hits the 1 kg ball with a force of 100 N. If the ball was at rest (0 m/s), how fast will it be going after 0.5 seconds?



The crate is moving to the RIGHT, and the person is trying to stop it by pushing it to the LEFT. The crate's mass is 50 kg and the person's push is 100 N. If it starts out at 8 m/s, how fast will it be going after 2 seconds?



For the problem above, how many more seconds until the crate stops?