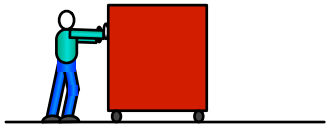
Week 11 2nd Law

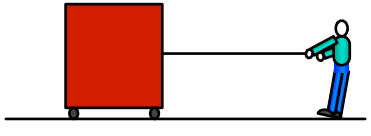
4 Tricky A

The 20 kg crate gains 2 m/s/s due to the person's push. What force is the person using?



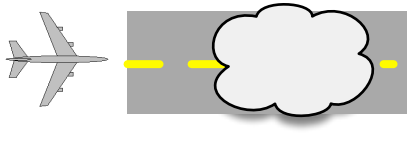
speed at start	speed after 2 sec
0 m/s	

The 30 kg crate gains speed due to the person's pull. What force is the person using?



speed at start	speed after 2 sec
0 m/s	6 m/s

The 5,000 kg jet's landing gear failed. Foam on the runway will bring it to a halt. How much force did the foam provide?

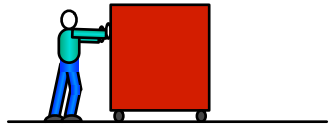


speed at start	speed after 9 sec
90 m/s	0 m/s

Week 11 2nd Law

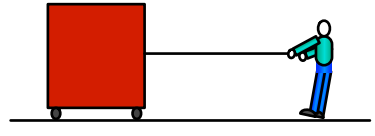
4 Tricky B

The 30 kg crate gains 2 m/s/s due to the person's push. What force is the person using?



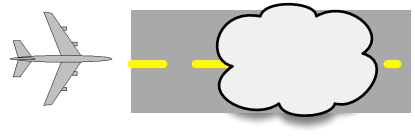
speed at start	speed after 2 sec
0 m/s	

The 20 kg crate gains speed due to the person's pull. What force is the person using?



speed at start	speed after 2 sec
0 m/s	4 m/s

The 4,000 kg jet's landing gear failed. Foam on the runway will bring it to a halt. How much force did the foam provide?



speed at start	speed after 8 sec
80 m/s	0 m/s