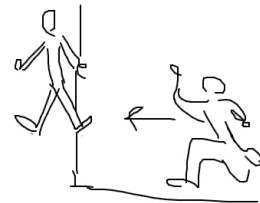


Corona Week 5 Impulse

1. CP Basics

1. The man runs and jumps onto a velcro wall.
The wall applies an average force of 50 N for 2 s
to the person.



- Calculate the impulse delivered to the person.
- What impulse did the wall get?
- What force did the wall get?

2. A ball is dropped onto a force plate which measures an average force of 12 N for 1 second. Next, we repeat the experiment, but we place a soft piece of foam on top of the force plate so that the collision takes 3 seconds.

- Predict the new average force.
- In which case was the impulse greater?

3. Explain using physics terms how the pads that sports players wear keeps them safer.

4. Match the force graph to the situation.

____ Falling onto a concrete floor.

____ Falling onto a soft pad.

____ I bend my knees when landing.

____ I catch a baseball with no baseball mitt.

