Answer to Question #85689, Physics / Mechanics | Relativity

Impulse is defined as force applied to a particle for a certain period of time.

$I = F\Delta t$

$I = \Delta P = m\Delta v$

$I = 0.50 \times (-12.5 - 15)$

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I=-13.75 kgm/sec

Negative sign shows that force on the wall is opposite to force on the ball

Again

$I = F\Delta t$

Thus time=I/F=13.75/1100=0.0125 second