## Question \#55315

$\mathrm{M}=500 \mathrm{~g} ; \mathrm{V}=10 \mathrm{~m} / \mathrm{s} ; \mathrm{dt}=0,1 \mathrm{sec}$
F - ?


We write Newton's second law to strike the wall:
$M^{*} d V / d t=F$, where $d V=V-(-V)$ is absolute change of speed during the strike, $d t$ - time of collision.

Then $\mathrm{F}=2 \mathrm{M}$ * $\mathrm{V} / \mathrm{dt}=2 * 0,5 * 10 / 0,1=100 \mathrm{~N}$
Answer: $\mathrm{F}=100 \mathrm{~N}$.
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