

Fill in the Blanks

Momentum and Impulse

Mass of Particle	Initial Velocity	Initial Momentum	Final Velocity	Final Momentum	Force	Time	Impulse
4 kg	2 ms^{-1}	8 Ns	5 ms^{-1}	20 Ns	12 N	1 s	12 Ns
5 kg	0 ms^{-1}	0 Ns	6 ms^{-1}	30 Ns	7.5 N	4 s	30 Ns
2 kg	5 ms^{-1}	10 Ns	9 ms^{-1}	18 Ns	16 N	0.5 s	8 Ns
3 kg	1 ms^{-1}	3 Ns	5 ms^{-1}	15 Ns	2.4 N	5 s	12 Ns
100 g	20 ms^{-1}	2 Ns	50 ms^{-1}	5 Ns	12 N	0.25 s	3 Ns
2 tonnes	1.5 ms^{-1}	3000 Ns	4.5 ms^{-1}	9000 Ns	2000 N	3 s	6000 Ns
0.4 kg	13 ms^{-1}	5.2 Ns	31 ms^{-1}	12.4 Ns	72 N	0.1 s	7.2 Ns
2 kg	-5 ms^{-1}	-10 Ns	20 ms^{-1}	40 Ns	250 N	0.2 s	50 Ns
0.5 kg	-8 ms^{-1}	-4 Ns	20 ms^{-1}	10 Ns	7 N	2 s	14 Ns
$m \text{ kg}$	$u \text{ ms}^{-1}$	$mu \text{ Ns}$	$5u \text{ ms}^{-1}$	$5mu \text{ Ns}$	$2mu \text{ N}$	2 s	$4mu \text{ Ns}$