Senpaicorner.com		Physics	
Signature:	Name:	·	Marks:
Momentum Wor	-ksheet		
Q1.			
•		skateboard with a mass of of the skateboard with a	- ·
	F	igure 1.	
Q2.			
•		kg. The bullet reaches a v of the pistol is 5 ms <sup>-1</sup> , find	•

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Q3.
The figure below shows a 4 kg rifle which recoils backwards with a velocity of 2 ms <sup>-1</sup> when a bullet of 0.02 kg is fired.  2 ms <sup>-1</sup> Figure 2.
a) Calculate the momentum of the rifle when the bullet is fired. b) What is the momentum of the bullet? c) Find the value of v
Q4.  A bullet with mass of 20 g is fired from a 3 kg rifle with a velocity of 250 ms <sup>-1</sup> . What is the total momentum of the bullet and the rifle after the explosion?

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Q6.							
A 1000 kg travelling at 15 ms <sup>-1</sup> collides with a 100 kg motorcycle which is at rest. After collision, both vehicles move together. What is their velocity after the collision?							
Q7.							
Car A of mass 600 kg moving at 10 ms <sup>-1</sup> collides with car B of mass 1000 kg moving in the opposite direction. If both cars move together after the accident at 4 ms <sup>-1</sup> in the direction of car B, find the initial velocity of car B.							