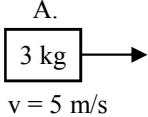
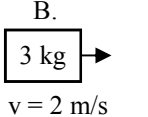
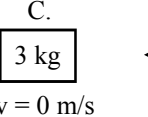
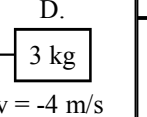
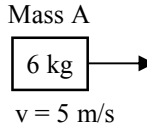
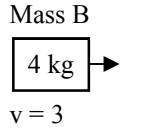
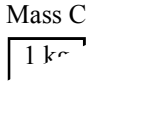
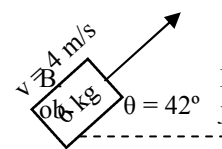


1. Momentum	A. $p_f - p_i$.	10. Can an object have momentum in space?
2. Impulse	B. Equal to Σp .	11. If you increase a moving object's mass, how does its momentum change?
3. Δp	C. It is important to know how big and in what direction.	12. If an object changes momentum there must be a change of _____ or _____.
4. Vector	D. How an object changes momentum.	13. How can momentum be negative?
5. Magnitude	E. The "25" in 25 kgm/s.	14. How can an object have the same speed and mass, but change its momentum?
6. p_{net}	F. The product of mass and velocity.	15. How can multiple objects have a net momentum of zero?
<i>Which has more momentum?</i>		
7. A bowling ball at rest or a bowling ball going 1 m/s?		
8. A fast baseball or a slow bowling ball?		
9. A 1000 kg object at rest or a 1 kg object moving 0.2 m/s?		
<p>A.  B.  C.  D. </p> <p><i>Above shows an object at different positions.</i></p>	<p>Mass A  Mass B  Mass C </p>	
16. Calculate the object's momentum at position A.		
17. Calculate Δv between positions A and B.		
18. Calculate Δp between positions B and D.		
19. Calcula-		
Sample: Momentum and Impulse p.2		
20. Calculate p_{net} of B and D.		
21. Calculate p_{net} of all four objects.		
22. 6 N pushes to the right on a 3 kg mass for 8 seconds. A. Calculate the impulse.		
23. A 15 N force pushes on an object for 10 seconds. How much momentum did it gain?	 <p>How much momentum was gained by the object?</p>	
24. Find the net momentum of the following:		
25. Find the p_x and p_y of the following object.		
26. A 4 kg object is moving 2 m/s to the right. A 6 N force pushes to the left for 3 seconds. A. Calculate p_{before} .		