WE	P Practice Test (Pre-AP Physics)	Name:	
Short Answer (18 pts.)			
1.	The Conservation of Energy says(at least one	e form please)	
2.	changes energy.		
3.	We discussed a form of potential energy in class—namely gravitational potential energy. For $PE_g$ to be considered in solving an energy problem, what must change about an object?		
4.	In the lab we did to find the power of a person, how did we find the amount of work the person did by climbing the stairs? (Don't give an equation. What principle did we use?)		
5.	As your physics teacher drops a bowling ball on the floor, the ball's potential energy transforms into kinetic energy until all of it is transformed into kinetic energy right before it hits. What happens to this kinetic energy when the ball hits the floor? (Name at least two things.)		
6.	Work/Energy is measured in	Power is measured in	
	Force is measured in	Mass is measured in	
<u>Puzzle</u>	s (Answer the following using ideas of work, ener	gy, and power. 16, 18, 16, 16, 16 pts.)	
7.	As you are moving into your dorm room at coll along the hallway floor. If he tugs with a force distance of 20.0 m, calculate the work he does.	ege your little brother uses a rope to tug a small wagon of belongings of 35.0 N at an angle of 30.0 degrees above the horizontal for a	
8.	A $1.20 \times 10^3$ kg car, starting from rest, accelera	Ans: tes for 5.00 seconds. The magnitude of the acceleration is	
	4.60 m/s². Determine the final speed of the car, engine.	the change in the car's energy, and the power generated by the car's	
		Ans:	
		Ans:	

Ans:

10.	A hockey puck ( $m = 0.162 \text{ kg}$ ) with an initial velocity of 45.0 m/s slides across some roug 18.0 m and leaves the rough patch with a speed of 41.0 m/s. Find the force of friction that	gh ice for a distance of t acted on the puck.
		Ans:
11.	Imagine that a bullet with a mass of $6.0 \times 10^{-3}$ kg leaves a rifle at 320 m/s and experiences $1.2 \times 10^{-3}$ N. How high can the bullet rise if fired straight up?	an average air drag force of
		Ans:
12.	You throw something at 5.0 m/sec, and it hits the ground at 9.0 m/sec. How far above ground at 9.0 m/sec.	ound level are you?
		Amai
		Ans: