HONORS PHYSICS Force Quiz Review Objectives: P3.1A,d P3.2A,C,d P3.4C,e,f Objectives: P3.1b, 3.1A, P3.6A,B,C,d	NAME:
Directions: Please show knowns/formula/solution	ons for full credit.
1. A 500kg mass accelerates at a rate of 45m. $F = M G$	
22500 F=500 x	15
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2. A dog has a mass of 670 kg. What is his weight in N?	
6566 FW=Mg	×9.8
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67500 n Need 4. A 3000kg car goes from 0 to 26m/s in 10s.	$V^{2}=V_{0}^{2}+2\alpha X$ $F=300\times12S$ $30^{2}=2\cdot2\alpha$ $90\%=\alpha=72S$ What force was used?
$ \begin{array}{c c} 7800 & -f = ma \\ & n = cda \end{array} $ $ \begin{array}{c c} & n = v_0 = 0 \\ & v = 26 a = ? \end{array} $	V=Votat F= 3000×82. 26=10a a= 322.6
5. If the two masses are being accelerated upv find the tension in each cable?	TI = To + tw + ta
2232 T1 Tz=Fu+Fa	T = 496 + (10 x9.8) + (70 x1.
496 TZ = 20x9.8+20x15 T	
T	Okg Okg
6. An 800kg elevator has 30000N tension in the cord while going up. What is its acceleration rate? $T = F\omega - Fa$	
$\frac{1-7\omega}{27.7}$ m/s/s $30000 = 8$	300 x 9.8 - 800 a a= 27.7
7. The coefficient of static friction between a 15kg box and the floor is .6. What is the maximum horizontal force that can be applied to the carton before it slips?	
88.2 Fh M=FA	. 6 = FF 15.9.8