Name Force Problems	Answer on another shee	C DRAW A DI	CTUDE	Period
Vewton's 1st	F = mg	g = 10 m/s^2	$N = \text{kgm/s}^2$	1711
and and	F = mg d 2 nd Law Problems			W2
What is the	nass of a dog that weighs	75-N?		
Famg	75N=M (9.00	(3)		

2. An astronaut with all her equipment has a mass of 95-kg.
a. How much will she weigh on the Earth?

b. How much will she weigh on the moon where acceleration to gravity is 1.67-m/s²?

Many automobile passengers suffer neck injuries when struck by cars from behind. How does Newton's law of inertia apply here? How do headrests help to guard against this type of injury?

4. A net force of 200-N acts on an object with a mass of 40-kg on. How much does the object accelerate?

5. An object is observed to accelerate at 14 m/s² while under the influence of 270-N net force. What is the object's mass? 10.3 Wg