1	Name				Period
or	ce Problems —	DRAW A PICTUR	E !		
? =	ma	F = mg	$g = 9.8 \text{ m/s}^2$	$N = kg \bullet m/s^2$	
l.	What is the m	ass of a dog that weig	hs 75-N?		
2.	An astronaut v	with all her equipmen	t has a mass of 95-kg.		
a	. How much wil	ll she weigh on the Ea	arth?		
b	. How much wil	ll she weigh on the m	oon where acceleration to gravity	is 1.67-m/s ² .	
3.	An object witl	n a mass of 15-kg is c	bserved to accelerate at 3m/s ² . W	hat is the net force on the ol	bject?
1.	A net force of	200-N acts an object	with a mass of 40-kg on. What is	s the acceleration of the obje	ect?
5.	An object is o	bserved to accelerate	at 14 m/s ² while under the influen	nce of 270-N net force. Wh	at is the object's mass?
5 .	A net force of object?	150-N acts upon an o	object with a mass of 25-kg for a t	ime period of 4 seconds. W	hat is the acceleration acting on the
	a. If the init	ial velocity of the obj	ect is 13-m/s, what is the final ve	ocity?	

What is the distance traveled of the 25-kg object?

b.